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No. 4

Welcome to the 15th year of VIDEO Magazine's Buyer's Guide & Test Annual. In this special issue, we've highlighted the models we feel are the best in their respective product categories — which are stamped with our "VIDEO Buyer's Guide Best" logo. Use our Buyer's Guidelines to help you begin shopping, examine the best of Berger-Braithwaite Labs' 1991 "Videotests," and use our charts and listings to help you make your final decision. Good Luck!

BUYER'S GUIDE VIDEO BEST

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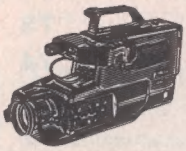

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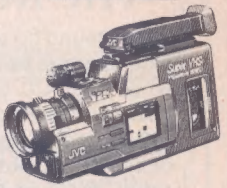

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HOW TO BUY

The Real MTS

Stereo sound became a reality for the United States and Canada in 1984, when the FCC adopted the Multichannel Television Sound standard (MTS). Today, more than 30 percent of color TVs sold in North America are equipped to receive MTS. Television broadcasters must meet FCC requirements when they encode their signal (encoding is necessary to make the signal compatible with mono TV receivers), but there is no such regulation regarding the decoding of that signal.

For the past two years several manufacturers have been replacing, in some of their models, the dbx-TV Noise Reduction circuitry, which had been both the FCC recommended and the de facto standard, of their MTS systems with another decoding system. According to Win Craft, Technology Licensing Manager of dbx, separation in some of these sets may never exceed 4 or 5 dB, and frequency response is often limited to 3 kHz. "As far as I can determine," Craft says, "these new decoders aren't even the same from set to set. They're just several transistors in an arbitrary arrangement. It certainly doesn't produce the stereo image that either the broadcaster or producer intended."

Television audio, being an FM signal, is subject to higher noise levels at the higher frequencies. The dbx system was specifically chosen by the FCC because it corrected this problem in a continuous manner. According to Craft, the non-dbx decoders only reduce this noise within a very limited, arbitrary range. In fact, even the dbx system is a compromise at best and will be inadequate for future HDTV application as well as insufficient for Dolby Surround, Pro Logic, SRS and other current advanced sound processors.

Most other MTS systems, for now, still have dbx-TV Noise Reduction. Aside from brand-shopping, the most reliable ways to look for the dbx version are to check for the presence of SAP (which the new decoder doesn't provide) or the dbx logo on the product.

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ELECTRONICS EDUCATION

Buying video equipment, and electronic equipment in general, can be quite confusing for consumers. Should I buy through mail order? What type of service warranty will I need? Who can I turn to if something goes wrong with my equipment? These are all valid questions. To help you shop wisely, we've sought the advice of an expert in electronic retail sales, Maier Lehman, president of New York City's Not Just Video.

Customers have to know about the products they're looking for.

Q: What do you feel are the most important aspects of purchasing electronics equipment?
A: Having confidence in and being familiar with a particular brand and a dealer are easily the two most important aspects. Consumer publications like this one that provide product information can be very helpful if you're not familiar with a particular product or brand. And, if you haven't already established a relationship with a dealer, it would be a good idea to look into finding a reputable dealer. The relationship between the customer and manufacturer — and the customer and the dealer — will hopefully be an on-going one. Both the manufacturer and the retailer, in particular, rely heavily on repeat business, therefore they should always make an effort to help you in any way they can.

Q: When should someone shop by mail order as opposed to at a regular retail establishment?
A: If someone is confident in the mail order house, the brand in question, and their knowledge of the product they're purchasing, it is always a good idea to shop by mail order. Mail order retailers usually deal with larger volumes of merchandise, and are thus capable of providing lower prices. There is a certain amount of trust in mail order purchasing and it does require that you do some product research on your own.

Q: How can consumers protect themselves from faulty equipment and poor service?
A: Most manufacturers generally provide 90-day warranties with all of their equipment. Since most video equipment failure usually happens in the first 90 days after it is purchased, this is usually good enough. However, for an extra fee the consumer can purchase an extended warranty which is sometimes a worthwhile expense. These are especially recommended for camcorders, all of which use computer chips that should be protected under some type of warranty. But be careful, read a warranty very carefully. Many of these warranties aren't exactly what they claim to be.

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Camcorders such as Sharp's VL-L50U Slimcam are popular mail order products, but make sure you know what you're getting when you shop by mail.

FEATURES TO LOOK FOR:

Here are some of the camcorder features you ought to carefully consider when you're shopping.

1. Zoom ratio. For basic applications 6x and 8x zooms are sufficient, but for long-distance videography, take a look at some of the 10x or 12x models. If you're looking for super zooms try some of the models with digital zooms as high as 100x.

2. Built-in audio monitor. For on-site soundtrack reviewing this feature can't be beat.

3. Audio/video dubbing. Raw footage is great but not everyone else may think so. This feature will help keep the costs of outboard gear down.

4. Color enhancement light. You'll be amazed at how much a little 10-watt light can do for a scene's colors.

5. Image stabilization. Whether it's EIS or a physical stabilizing system on the tape drum, this technology goes a long way toward making your pictures perfect.

6. Macro. For ultimate close-ups, you can't live without it.

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THE CAMCORDER CHALLENGE

Shopping for a camcorder is not an easy task. With a slew of features, formats, shapes and sizes, you'll fast find yourself assaulted in the showroom with enough options to make your head spin. What to do? Go prepared. And the first step in getting the facts together is deciding which format you want to go for. As you might have guessed, each has its unique advantages and disadvantages.

Start with VHS — the giant in home entertainment standards. It stresses compatibility with home VHS VCRs — a staple among American households. But for the compatibility, you generally have to deal with a large camcorder body. According to Richard Savich, camcorder and VCR product manager for Hitachi, "The size and weight of VHS may be burdensome to some, but the larger body allows more room for extra functions such as editing features." Body sizes are getting slimmer and lighter but, he adds, "picture resolution is only average."

The first step in getting the facts together is deciding which format you want to go for.

Super VHS, on the other hand, boasts enhanced picture resolution capabilities. Savich claims that this format is more common among "semi-pros" (i.e. wedding videographers) who enjoy a significant picture improvement and the added flexibility of the format's editing advantages.

In the same family, compact VHS or VHS-C offers the advantage of VHS compatibility (almost) in a smaller package. Of course, remember that a VHS-C-to-VHS cassette adapter is required to play VHS-C tapes on a VHS VCR. This format has gained considerable videophile acceptance — as have all mini camcorders. VHS-C's high resolution relative, Super VHS-C (SVHS-C) offers the diminutive dimensions of VHS-C with the higher picture quality of Super VHS.

Then there is the 8mm camp: standard 8mm and High Band 8mm, or Hi-8, as it's most commonly known. Similar in design and size to VHS-C, 8mm has made great headway infiltrating the camcording population. Though this format is not compatible with VHS VCRs, many feel that it offers picture resolution superior to VHS and its offshoots. However, Savich contends "It's really a toss-up between 8mm and VHS-C. I don't feel that there's a significant advantage of one over the other. Choosing one of these is merely a matter of personal preference." In other words, test drive both in the showroom.

Hi-8, meanwhile, offers stunning pictures that many feel exceed even the pictorial brilliance of Super VHS. If you're in the market for a high resolution camcorder, it certainly behooves you to test this format before you buy.

Basically, though, personal preference is the best buying yardstick you have. Know what you'll want your camcorder to do for you, and evaluate features on models in your budget range to see which will serve you best. You'll have to decide, for example, if you want to spring the cash for a model

RCA's Pro865 8mm camcorder

with a high zoom ratio. For taping live sports, a high speed shutter is essential. If you'll be shooting indoors, look for low lux levels.

Electronic Image Stabilization (EIS) is a useful feature to have if you expect the camcorder to shake more than usual. "When a unique feature like this is added to a model, manufacturers will quite often eliminate others to achieve a certain price point," warns Savich. "You may be opting for EIS and are actually missing out on something else." Distinguish carefully between fad and feature.

Unlike many industry pundits, Savich casts a skeptical eye on some of our most steadfast buying tenets. "The thinking has been that the lower the lux rating, the better the picture exposure," he says. "On the contrary, with any camcorder on the market shooting below 20 lux you will get very poor color rendition at best." He gives this example: "If you locked yourself in a closet with a camcorder, the light coming in underneath the door is about seven lux," he claims. "There is no way you're going to get a good shot with those lighting conditions." However, Savich does believe that low lux ratings are good indicators of a model's optic qualities.

Savich's down-to-earth ideas are good to keep in mind. Realize that home entertainment technology has never been more advanced, and avail yourself of that fact. Confused? That's why we're here. Use this Buyer's Guide to contrast and compare features within your chosen format. There *is* a unit out there that's perfect for you. It's just a matter of finding it.

Compatibility is one of the biggest benefits of VHS camcorders such as this model from Minolta.

MAKING A GREAT VIDEO INCLUDES QUALITY SOUND TOO!

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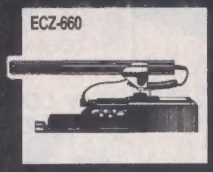
ECZ-660



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HS-7V

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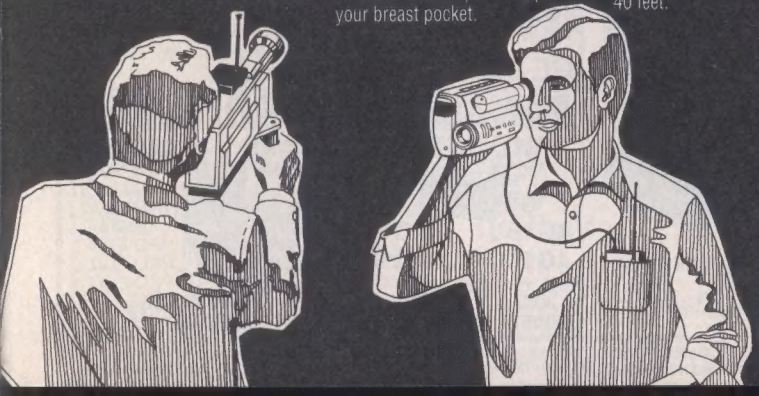

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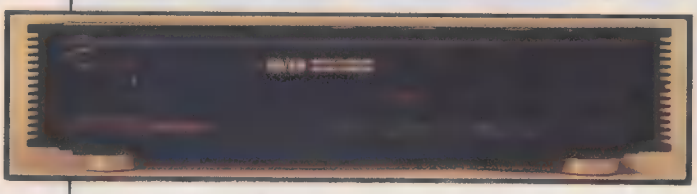
VCR FORM FOLLOWS FUNCTION

Bill Mannion, the National Marketing Manager for Panasonic's VHS division, claims that the average VCR user can be easily classified as having one of four basic owner requirements: time-shifting, viewing rented tapes, audio/video home theater integration, and home editing. These four different classifications — once you can identify which one (or several) you belong in — will help you when you're purchasing a VCR. Simply identifying the applications you intend for it will help you narrow down your choices from the more than 180 models currently available on the market.

"All you have to do is simply ask yourself a few questions," says Mannion. "For example, 'Am I going to use it to record programs while I'm not at home?' If so, then you'll probably want a VCR with more advanced programming features." Someone interested in a VCR for time-shifting purposes will want advanced programming features. Ease of programmability is very important. "They're all easy, it's just that if you use it once and then don't use it again for a few weeks will you have forgotten how to use it," says Mannion.

Good examples of these can be something as simple as one with a longer programming calendar and more event recording. Or it can be as advanced as Gemstar's VCR Plus system or Panasonic's PV-PG1 LCD Program Director. VCR Plus utilizes "Pluscodes" that appear next to program listings in many major publications that are entered into a remote-like piece of equipment and automatically program the day, time, length and channel of the program you want to record. Similarly, the LCD Program Director uses rotary dials to select all recording parameters.



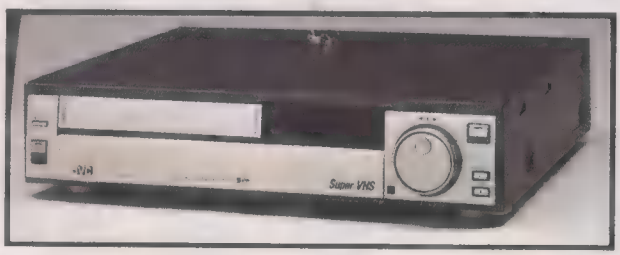
▲ Instant Replay's 50/60 Standards Converter VCRs are capable of recording foreign formats onto NTSC. JVC's new HR-S6700 SVHS entry. ▼

If you're going to use a VCR just to watch movies in a regular TV and VCR setup, a 2-head mono unit will probably suit your needs. But if your setup more resembles a home theater (which could also be a TV and VCR setup only with better audio potential) you'll want to add Hi-Fi.

A common misconception is that having a unit with four video heads will give you a better picture than one with two heads. This is only half true; the two extra heads enhance the quality of the picture when transport effects such as slow motion, forward reverse scan or frame advance are in use.

There are numerous convenience features Mannion suggests buyers investigate. For one, timer backup will preserve programmed events in areas prone to electrical power outages. Frequent travelers will appreciate a model with increased event programming possibilities. Editing mavens have several features they should be on the lookout for, including flying erase heads, jog/shuttle dials, audio/video dubbing, and several types of search functions such as index, address, and real time search.

Of course, there's one possibility we haven't mentioned, and that's the TV/VCR — one of those all-in-one units that come with tape spinner and screen attached. These come in a variety of formats and sizes, and should be carefully considered by anyone who has business applications, or who wants to travel video-ready. They can also serve well as the house's second (or third) VCR. Just remember that they come in varying levels of sophistication, and examine features and capabilities carefully before you take the all-in-one plunge.



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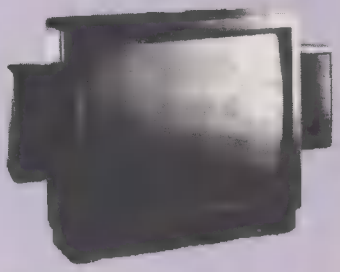

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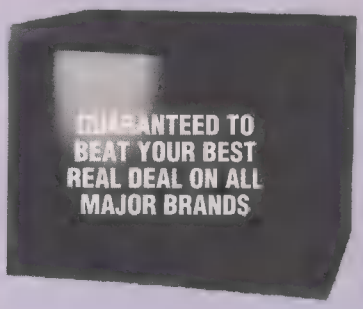

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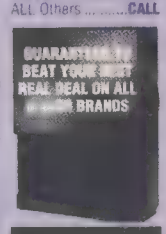

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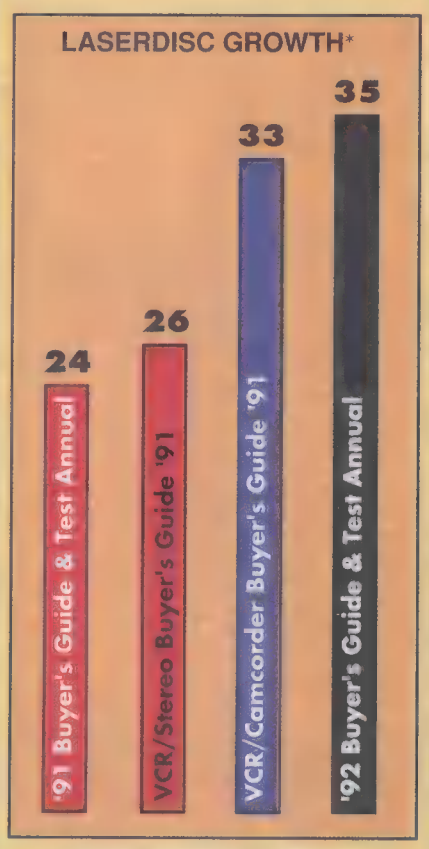
DISC MANIA

The LaserDisc market has reached an all-time high in terms of product availability. Below is a chart showing the number of models listed in three previous VIDEO Buyer's Guide issues and in this issue.



*Based on information provided by manufacturers.

LASER REVOLUTION

If your idea of a good time is sitting back — at home — and being stunned by a crystal clear picture while being regaled by knock-your-socks-off digital audio, then LaserDisc is probably the format for you. It's the jewel in the home theater crown.

As you know, home theater has become *the* buzzword of the day, and LaserDisc has had a lot to do with it. According to Kerry McCammon, Senior Marketing Manager for Pioneer, the prevalence of large screen television has increased the public's awareness of the inherent flaws of videotape formats and simultaneously whetted their optical disc appetites.

Along with consumers' realization of LaserDisc audio and picture superiority, two other aspects of the format are making it more appealing than ever. First, prices have dropped to an all-time low with reports of models being sold for under $400. And the flexibility of combination players capable of playing not only videodiscs but also compact discs have lured even consumers glued to their VHS VCRs.

All of these players, save for Pioneer's dedicated LD-S2 videophile player, are combination players capable of playing both audio and video discs ranging in size from five- to 12-inches.

"With a combi player, the consumer gets the best that both audio and video has to offer."

Pricing and flexibility aside, audio and video quality are what's making the format so attractive. With LaserDisc checking in at more than 400 lines of horizontal resolution, even the super resolution tape formats are hard pressed to compete (although, of course, you can't record on a LaserDisc). Another strong suit of the format is its accessing abilities.

Of course, depending on the uses you may have in mind, you may want a high-end player, a bare-bones player, or no player at all. "If standard VHS video is something you're happy with, then don't bother with LaserDisc — or with any higher-resolution format, for that matter," says McCammon. "But if you enjoy beautiful-looking video, this is the format for you."

McCammon suggests that you investigate some of the more pertinent features to help you decide which player is right for you. He says that flip-side play is of particular importance as a convenience feature. As the name implies, this feature automatically plays the flip side of a disc much like an auto reverse cassette deck.

The MDP-605 combination player from Sony.

Others will want to opt for advanced "tricks" such as freeze frame, visual scan and multi-PIP. Of course, features such as these will appear only on higher-end players. Entry level players are basically play-only units with ample convenience features minus the esoteric bells and whistles.

Also, a video format — regardless of its picture performance (i.e., Beta) — is useless without software. However, you don't have to worry about being able to get your hands on LaserDisc titles. Nearly every title on tape is available on LaserDisc, and in many cases the LaserDisc version is simultaneously released at a *lower* price than the tape version. Outlets for LaserDisc rental and sales are popping up everywhere, and many offer mail order services. And many LaserDiscs are available in videophile versions, with extra footage and the original letterbox format.

Of course, the only drawback to LaserDisc is that you can't record on it. But then again, watching an episode of a soap opera taped earlier in the day is not quite like the dramatic experience of watching *Gone With the Wind* in all its cinematic glory on LaserDisc.

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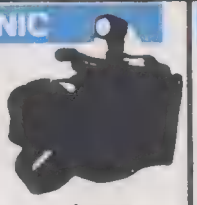

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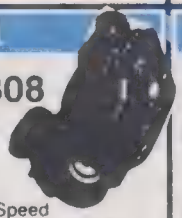

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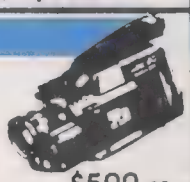

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Mitsubishi's CS-2010
20-inch monitor/receiver.

JUST PICTURE THIS

No matter how advanced your home entertainment array, it all comes to naught if your monitor/receiver isn't ship-shape. When it comes to buying know-how, the television is the most important place to get the picture.

As advanced as some of the features on monitor/receivers are these days, picture performance continues to be the consumer's primary concern, according to Elliot Broadwin, Manager of Product Development at Thomson Consumer Electronics.

So how do the experts judge what good picture performance is? "Aside from relying on personal taste," says Broadwin, "you should check to make sure that flesh tones are accurate, carefully examine how bright the whites are and how dark the blacks are, and finally make sure that colors are fully saturated and that they are fine, meaning that they do not flood over."

In terms of resolution capability, many of the models available today are equipped to provide more lines of horizontal resolution than any commercially-available video source is capable of putting out. With the improved video capabilities of monitor/receivers, manufacturers are also paying a lot more attention to their audio, says Broadwin.

"There has been more effort in the industry to enhance TVs audio primarily because of a monitor/receiver's sonic limitations," he says. Because a monitor/receiver does not provide optimum physical conditions for accurate audio reproduction, consumers ought to carefully evaluate the audio characteristics of models they're considering buying. "It's important to pay close attention to bass performance," says Broadwin. "This is the critical audio area of a monitor/receiver where audio deficiencies are most common."

Broadwin recommends that any model worth investigating should have at the very least some type of ambience circuitry if not Dolby Surround or SRS to enhance its audio capabilities. However, he does warn that there are some audio features you may be paying extra for that you may never need. For example, SAP (or Second Audio Program) is a feature that is only useful for simulcast broadcasts of bilingual programs. The average consumer won't need it. However, be forewarned that some new models equipped with MTS leave out the dbx circuitry many feel is necessary for reproducing true stereo sound.

What features should consumers look out for? Broadwin believes that picture and audio performance should be evaluated first. Once a consumer is satisfied with both of these aspects he suggests models with picture-in-picture or even multiple-PIP and other convenience features.

Remember, the monitor/receiver is going to be the heart of your home entertainment center, so make buying the right one your top priority. You'll be staring it in the face for years to come.

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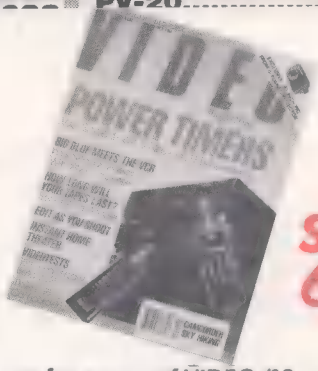

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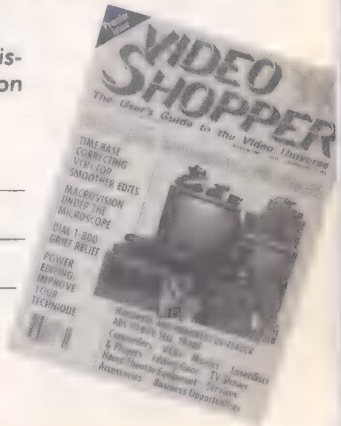

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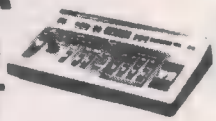

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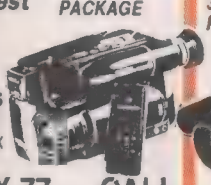

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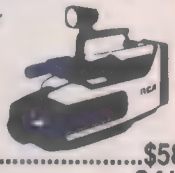

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PROFESSIONAL ADVICE

Assembling your own home theater or having one installed for you will be quite a chore. Whichever method you decide, it is probably a good idea not to go it alone. You need professional advice from the pros who know all about the equipment, the installation process and the service of your home theater. There are two organizations who can either give you advice or refer you to a dealer in your area who can:

CEDIA (Custom Electronics Design and Installation Association) is an organization of custom installers that can provide you with vital design information and also refer you to a qualified A/V installer. For information and referrals, call (800) 233-4230.

If you're considering more equipment purchases, it would be a good idea to contact PARA (Professional Audio Video Retailers Association). They will help you make sure that you'll be getting the proper sales and service information by putting you in touch with your local PARA dealer. For dealer information, call (816) 444-3500.

A sample home theater setup. Photo courtesy of CEDIA.

FRONT ROW CENTER

Home theater means a big screen and audio to match.

Home theater is a lot like the concept of Utopia; it is what you perceive it to be. Is it a vast custom-installed system that includes a mammoth screen the size of a wall and more componentry than you'll find inside the Space Shuttle? The editors of this magazine simply define a home theater as a setup that includes a big screen (again, you decide what *big* is) and good audio quality characterized by stereo, ambience or surround sound decoding.

To some, this may only mean a 27-inch monitor/receiver with MTS stereo and Dolby Surround Sound. The other extreme mentioned earlier might include a lavish array of audio components and video sources coupled with a large screen or even several screens. Either way, the television is perhaps the most important aspect of a home theater and here you have a number of choices. An entry level home theater might have a direct-view screen anywhere between 27- and 35-inches. The next step up would be a rear projection model ranging in size from 40- to 70-inches. In both cases, MTS stereo is a must and some type of audio enhancement circuitry such as Dolby Surround Sound is highly recommended. Finally there are video projection systems that include either floor- or ceiling-mounted projectors and screens as large as 300-inches. These screens are most often

Sharp's new XV-120ZU LCD video projector.

A/V receivers are the cornerstones of home theater. Excellent examples of these work-horses are ◀ Technics' SA-GX710 and the VSX-95 from Pioneer. ▼

Quality speakers such as the Technics SB-CL90 are essential for a good sounding home theater.

custom-installed and are motorized so that you can lower the screen from the ceiling, turn on the projector, tune to a channel or access a video source — all at the touch of a button.

Choosing your video source is the next step— for which we suggest either a VHS Hi-Fi VCR or LaserDisc player or both. In both cases, you should be able to find more than enough products at reasonable prices that will suit your needs and, of course, software is readily available for both.

For all practical purposes you could stop here. But if you're putting together a home theater, who cares about being practical? You want the cinematic experience in your own living room. You must then decide on whether you want a workhorse, all-purpose A/V receiver that can do the job of an amplifier, tuner, sound processor, and audio/video switcher or all of these components individually. Compulsive audiophiles will insist that these individual components are essential, but in reality there is little loss of quality in having an A/V receiver perform all these functions. In fact, there are numerous A/V receiver models to choose from. Many of these are already equipped with Dolby Surround or other types of ambience processing.

Dolby Pro-Logic is a processing system that improves upon plain vanilla Dolby Surround by allowing an A/V receiver or an outboard processor to decode a fifth channel. This fifth (center) channel processes all the dialogue information so that actors' voices will seem like they're coming from the direction of the screen. Similarly, THX — a home theater standard developed by Lucasfilm that builds upon the Dolby system — aims dialogue at you from the screen but also adds additional channels for sound effects processing. When you're watching a movie in a THX theater you'll be able to distinguish all of the audio emanating from different directions; you'll even be able to clearly hear dialogue through booming sound effects and loud music. SRS processing from Hughes Corporation is either available built-into a range of sets from Sony and RCA or comes as an add-on black box; this is a surprisingly simple and effective technical alternative that truly expands the soundstage.

Finally, you'll want to investigate the numerous audio sources such as a cassette deck, turntable (yes, they're still around), and a compact disc player — which you may not even need if you're planning on incorporating a combination LaserDisc player into your A/V system — er, home theater

Whatever route you take remember that the only requirement for a home theater is that it be a system that adds more excitement to your home entertainment, and also one that the entire household can use and enjoy.

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THE BIGGER THE BETTER

The RM8570 rear projection TV from Magnavox comes fully loaded with Surround Sound and 600 lines of horizontal resolution.

There are two aspects of a projection television that are good indicators of the type of quality a certain model can provide," says Bill Loewenthal, Product Marketing Manager for Mitsubishi. "Brightness has always been a good way to judge picture quality, and contrast level — which is often overlooked — will determine the definition of edges and the differences between the darkest dark colors and the lightest light colors." As the old adage goes, a chain is only as strong as its weakest link, so Loewenthal suggests you especially take a close look at the red and green colors, since televisions typically have the toughest time reproducing them accurately.

The quality is so stunning from projection TV that viewers may forget about direct view television.

However, in most cases, the quality is so stunning from projection TV that viewers may forget about direct view television. Some manufacturers are marketing projection televisions with horizontal resolution maxing out at about 1000 lines. As for comparing it to direct-view, Loewenthal believes that "it's a very subjective feeling. Some will miss what they feel is the detail of direct-view, while others will like a bigger yet softer picture."

The biggest bonus of projection television is its big screen visual impact more akin to 70mm movie screens at times than televisions. However, Loewenthal believes that big screen television is getting a bad rap from those who believe it's only for those with available floor space. "There's a common misconception that you need a big room to have a big screen TV," he says. "Most people who buy them enjoy them for their enormous screen size at the same distance they use to watch a smaller direct-view TV. Putting a big screen at the other end of a large room would give the same effect as having a smaller screen in a smaller room."

Not only is it obvious that projection television picture quality has improved dramatically, but audio quality has evolved by leaps and bounds. Says Loewenthal, "Consumers should carefully examine audio features but most importantly make sure that the set has *upgradability* — meaning that it is capable of being used with other components you'll use in the future such as a surround sound processor." He also suggests that you have more than enough inputs for sources you already have or are considering adding to your system.

Aside from audio and video quality, Loewenthal feels that ease of operation is by far the most important aspect of a projection TV. Some of the features he finds most useful are P-I-P, name channel labeling, and the ability to name or label inputs to avoid confusion during source switching. Also, he finds that capabilities that allow consumers to hook up two antenna inputs and memorize the channels for each input are excellent benefits, although they are only available on a few select models.

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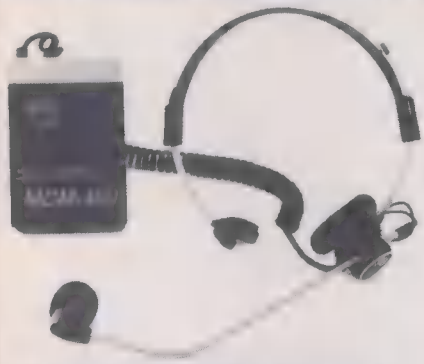

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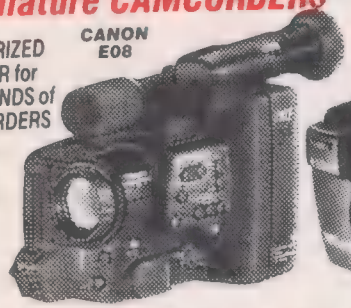

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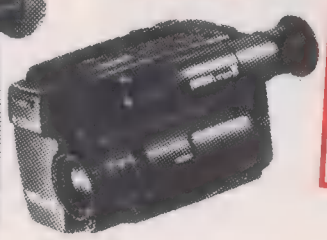

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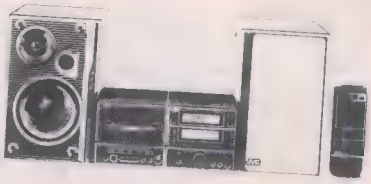

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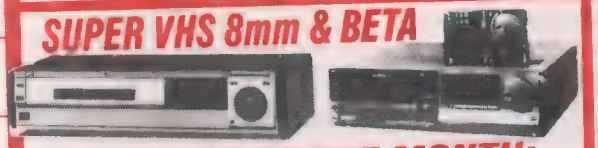

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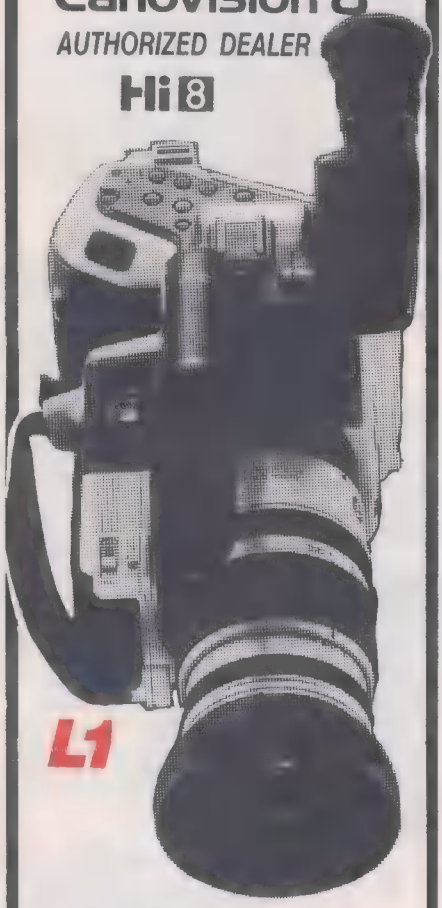

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SATELLITE HOME THEATER

The home entertainment source with the most possibilities is perhaps the one that videophiles know least about. Satellite television offers the most entertainment options available to you at home.

Satellite television offers the most entertainment options available to you at home.

A common misconception is that satellite television is only appropriate for those living in the boonies who don't have access to broadcast or cable (a tragedy to most). However, the home theater phenomena — which has stressed the best in audio and video quality — has also spawned a new wave of interest in satellite television. This is largely due to the fact that, aside from providing better audio and video quality than either cable or broadcast television, it also offers more viewing (and listening) options than even the largest video rental stores, and all at the touch of your fingers.

Currently there are more than two dozen satellites in stationary orbits about 23,000 miles above the equator, beaming more than 200 channels to home satellite dish owners. A recent innovation, direct broadcast satellite, is expected to allow even more channels to be transmitted using a digital transmission method.

The original signal comes from a dish transmitter. This signal is then "uplinked" to a satellite, which then transmits the signal back down to Earth to the home satellite dish. These home dishes are actually parabolic antennas that amplify the signal and send them to your satellite receiver, which then converts the signal into either audio and video, audio only or computer data. To access various satellites a dish is equipped with a motor drive that reacts to the commands it receives from a handheld remote.

All new satellite receiver models are known as IRDs, or Integrated Receiver Decoders. These components will allow you to watch all of the "channels in the clear" which refers to free satellite channels. Each satellite receiver is also equipped with a VideoCipher II Plus decoder which is essential for ordering and receiving subscription services. If you decide to order a subscription service, your IRD is electronically authorized to receive the scrambled service, and with the VideoCipher II Plus the service is descrambled for viewing This feature is especially useful for pay-per-view.

The Monterey 90 satellite receiver from Chaparral.

At the moment, the average size of a satellite dish is about eight to ten feet in diameter. Depending on your location, however, antennas as small as five feet in diameter may be more than adequate. The direct broadcast satellite (DBS) system in development operates on a higher frequency providing stronger signals. Therefore, the size requirements for home satellite dishes will shrink even further, allowing those with limited space to start thinking satellite.

Interestingly, the amount of programming will increase as dishes get smaller, thanks to satellites operating on Ku-band. These transmit stronger signals — and more of them — as part of the DBS system. As part of this innovation, many of the satellite systems currently on the market are capable of receiving both Ku-band and the standard C-band currently in use.

Audio and video quality are just as exciting. Clean, crisp sounding digital audio is what you'll hear and a picture that is an improvement over cable and broadcast is what you'll see on satellite television.

General Instrument's Super 2730 satellite receiver.

With most of the satellite systems available today you'll have an arsenal of convenience features and functions. On-screen graphics and information are as detailed as you'll see anywhere. Often these displays will include the title and the movie rating of a program as well as how much time is left in the program and also the name of the program that is scheduled to be on next. Popular video features are standard in most systems, including favorite channel recall, picture-in picture and also automatic reception and billing of pay-per-view programs.

Nothing can rival the variety and amount of entertainment and information options available to viewers of satellite television.

The most unique feature of satellite television is that it often offers viewers the choice of watching a particular program at various times. Many of the larger networks have east and west feeds, so for example, if you wanted to watch a movie that had already started on HBO at 8 p.m. on the east coast you could watch the west coast feed later that night.

Nothing can rival the variety and amount of entertainment and information options of satellite television. If you're considering it — and as we said you don't have to live in the boonies to have it — see your local satellite dealer. He or she will be able to not only help you with choosing the equipment, but also provide help with installation and inform you about the numerous programming choices at your disposal. With satellite television, the sky's the limit.

ZOOM WITH A VIEW

The following is a compilation of various format camcorders with especially long zoom ratios.

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Dytonica VL L8100U	VHS	[illegible]
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COMPUTERIZED VIDEOGRAPHY

Making a good home video takes careful "post-production" work.

Point and shoot. That was the promise of most camcorders. Pick it up, aim it at something interesting, push a button, and then watch the tape. Any home videographer who isn't boring his extended family with hours and hour of unedited video footage can tell you that the promise simply isn't true.

Making a good home video takes careful "post-production" work. That work may be simply editing the tape or adding some fancy flourishes. Now that the home video maven's arsenal includes the multimedia abilities of today's personal computer, giving a videotape a finished look has been made much easier and cheaper as well.

Any discussion of computers and video starts with the Commodore Amiga. The Amiga was designed from the ground up as a machine built for video. A plain vanilla Amiga, with no expensive add-ons, can be used for special video effects (as well as the more traditional things computers are built for — from games to spreadsheets). The machine is also very user friendly. Most people are adding titles to a video before they even get the thing out of the box.

Canon's XapShot still video kit.

If you can spend a little more and add some extra hardware and/or software to your Amiga, you'll be in techno heaven. Fortunately most Amiga add-ons are pretty low priced. Using only software, like Digital Creation's DCTV, you can get video images into your Amiga and doctor them up to your heart's content. You can add chroma-key capabilities to your setup for less than $400 with MicroSearch's ChromaKey. With this setup you can overlay part of a video signal on to a computer-generated screen the way the weather person is overlayed on a weather map on the evening news. The hottest news in Amiga land is NewTek's Video Toaster. The Toaster is a hardware and software combination that offers more features than most products costing many times its $1,595 list price. From overlaying live video on computer backgrounds to 3-D rendering —from a seven channel production switcher to a video paintbox — the Toaster's got it all.

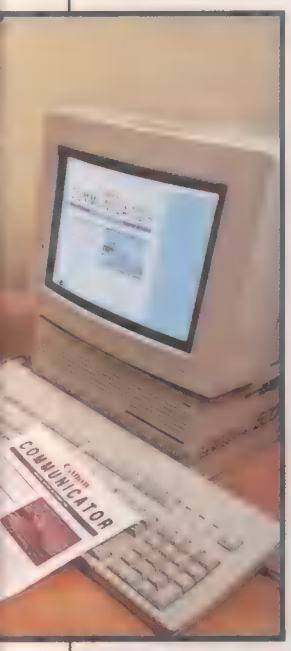
Users of other personal computers are not out of the video picture. Both Apple's Macintosh and IBM's PC and PC-compatibles can get in on the action.

On the Mac side the video capabilities have grown many times over in the last year. Products with lower and lower prices and more and more capabilities have come out one after another. Raster Ops have been selling their video capable ColorBoard 364 for about a year. Now they have upgraded it to the 24STV. With this board the user can digitize simultaneous frames of video and overlay Mac graphics on that video. The board also has a few add-ons of its own. Using this product and similar offerings like Radius' RadiusTV and SuperMac's Digital Film, you can digitize whole lengths of video and edit them directly on your hard drive. They all also offer the ability to output your final work to videotape.

On the software side, Apple has announced the QuickTime extension of the Mac Operating system. With this extension Apple is offering a standard for controlling external video devices. The standard multiplies the possibilities for the Mac and video many times over. Another software innovation is MacroMind's MediaMaker. This new tool hopes to

bring the desktop publishing revolution, with its easy access to professional results, to video. By controlling VCR's like NEC's PC-VCR or the Panasonic/Selectra AG-1960/RS this program can automate all editing and cut the time needed to get professional results.

For the diehard fans and users of IBM PC's and the myriad clones, there are video tools available as well. Computers running Microsoft's Windows operating system can now get an extension with capabilities similar to the Mac's QuickTime. The standardization of video device control will be a great boon for editing on the PC. Another innovation that Microsoft has offered is the MPC or Multimedia PC standard. The MPC stamp on a new PC means that the machine can perform many of the things that make video on a computer possible. You can update an old PC to the MPC standard by adding tools like a VGA card, a digital audio system (such as IBM's M-ACP A/A), and a CPU with at least the power of a 286. For serious video work a 386 is a good idea. Another good idea is New Media Graphics' Super Video Windows video capture board. For users of true blue IBM PS/2s, IBM offers the M-Motion Video Adapter/A. This expansion board allows full motion video and sound to be brought onto any computer. For output of your computer generated or altered video you will need a board like the Truevison Targa+. This is another of the do-it-all boards that can both get video in and get video out of your computer. In between is the fun part.



The IBM PCs and clones may be a little late in the video game, but they will certainly make a big splash before long. Both Microsoft and IBM are investing considerable sums of money in video and as you might imagine neither of these giants likes to lose money.

Using a home computer to finish your home video production may be just the trick to give a production the finishing touch. With prices plunging and capabilities growing there has never been a better time to get in on the video/computer bandwagon. — *Author Mark Alhadeff is a computer consultant based in Brooklyn, NY.*

FEATURES (CONTINUED)

7. Special effects. If you're going to put in time to make pro videos, you'll want features like time-lapse recording, titling, and maybe even some slick digital effects.

8. Style. Don't neglect industrial design in your shopping. The shape, size and feel of a camcorder can make a big difference in how and how often you use it.

9. Accessories. Does your camcorder come with a case, extra battery, power adapter cord and other extras? These can make a big difference in how big of a bargain you actually get.

10. Good VCR features. Remember, you'll probably want to use the unit as a VCR at some point.

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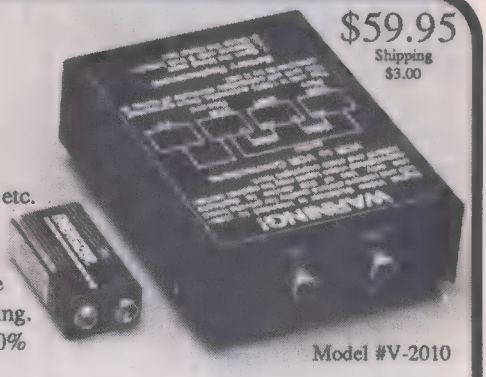

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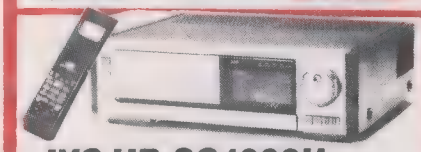

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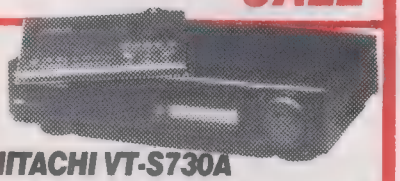

HITACHI VT-S730A
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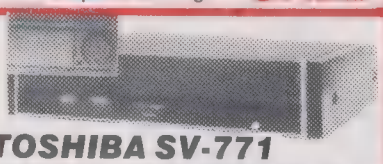

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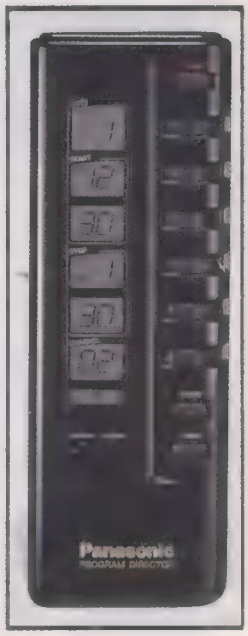
BUYER'S GUIDELINES

◀ Products such as JVC's JX-SV55 A/V editor should be carefully researched before buying to assure that it will offer the features you want.
▼ Panasonic's PV-PG1 LCD Program Director. Videonics' new sound effects mixer. (below)

BUYING ELECTRONICS *from page 7*

Q: Who is responsible for faulty equipment — the dealer or the manufacturer?
A: If the merchandise is defective upon purchase, the retail outlet is responsible. After a grace period, the manufacturer is responsible. This is why confidence in a manufacturer is important.



Q: Is it always wise to look for the lowest possible prices?
A: Yes. Mail order prices, for example, are usually 30 to 40 percent lower than a manufacturer's suggested retail. However, be careful of the old bait-and-switch. Some establishments try to take advantage of consumers by low-balling to lure them in and then they try to sell them a different product at a higher price. Customers have to know what they want. What is too good to be true quite often *is* too good to be true.

Q: What are the advantages/disadvantages of buying discontinued equipment?
A: Recently discontinued, meaning within the last two months, equipment quite often are fantastic values. There are some great discontinued value opportunities out there. You'll usually find these opportunities at larger outlets and from mail order dealers. In many cases, you can get a great discontinued camcorder for a fraction of its original selling price.

Q: Should consumers rely on the information they receive from a salesperson?
A: Only if they can be confident in his/her knowledge and integrity. Your best bet would be to educate yourself. If you're considering a purchase, pick up a consumer publication and ask a lot of questions about a particular product. You should always know what you are buying. The more you know the better.

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VSX9900	$899	$670
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VSX4900S	$599	$450
VSX3900S	$499	$310
VSX3800	$399	$240
CLD3090	$999	$710
CLD2090	$799	$549
CLD1090	$599	$399
CL990	$	$309

JVC

	RETAIL PRICE	CLUB PRICE
HRDX20	$399	$249
HRDX40	$429	$299
HRD720	$399	$339
HRD680	$449	$349
HRD760	$459	$349
HRD780	$599	$399
HRD910	$699	$449
HRD860	$599	$439
HRD940	$699	$CALL
HRD970	$699	$549
HRSC1000	$1899	$CALL
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	RETAIL PRICE	CLUB PRICE
U34	$399	$264
U35	$409	$299
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U55	$699	$479
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Panasonic

	RETAIL PRICE	CLUB PRICE
PV4101	$399	$229
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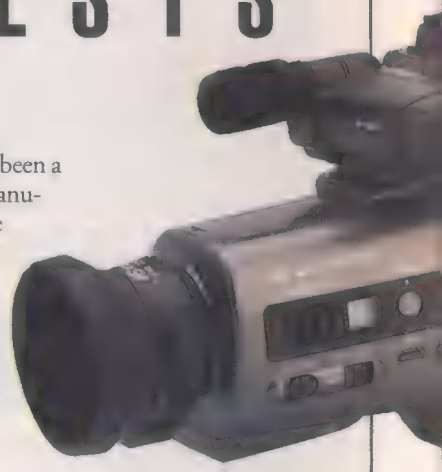
SHARP VL-L510U DATA

Suggested Price: $1,749
Weight: camcorder — 5.7 pounds without battery or cassette; battery — 1.6 pounds
Dimensions: 9-1/4 x 5-1/2 x 16-3/8 inches
Power Requirements: 12 VDC
Power Consumption: camcorder — 12 W; camcorder with light — 19 W
Image Sensor: 1/2-inch CCD, 270 ,000 gross pixels
Lens: f/1.8, 6/10/16x (7.5-120mm) variable speed power zoom (6 to 30 secs.) with auto macro
Filter Diameter: 55mm
Minimum Focusing Distance: 1/2 inch
Autofocus: TTL continuous to edge of lens shade
Minimum Illumination: rated — 3 lux; measured — 9.5 lux for 50 IRE
Iris: automatic with hold-type BLC/gain up
Sensitivity: normal/gain up
Auto Fade: triggered by start/stop
High Speed Shutter: 1/10000-, 1/2000-, 1/500-, 1/1 00-second and normal (1/60)
White Balance: automatic with lock
Viewfinder: electronic with onscreen indicators for dew, low battery, low light, no tab, tape end, error, full auto, record start/stop, pause, date/time, tape counter/memory, lap time, high speed shutter, remaining battery capacity, manual focus, WB lock, gain up, fade, interval recording, self-timer, insert editing and audio dub
Viewfinder Controls: positioning, magnifier focus and brightness
VCR Controls: rewind/search, play, fast forward/search, stop, pause/still, record, audio dub and insert
Microphone: omnidirectional electret condenser
Jacks: external mic, DC in, earphone, A/V in/out, remote pause, zoom remote
Tape Format: VHS
Tape Speed: SP
Video Heads: 2
Cue & Review (Search): 3x
Fast Forward/Rewind Time: approx. 6.5 min. for T-120
Remote: wired pause, wired zoom
Counter Digits: 4
Program Start Locator/Index/Cue: auto index mark, no read
Linear Audio: mono
Special Features: flying erase head, still frame, separate eject, counter memory, audio dub, insert edit
Absent Features: frame advance, slow motion, speed play, visible fast forward and

Berger-Braithwaite Labs'

VIDEOTESTS



VIDEOTEST 574

SHARP

VHS camcorder with 16x zoom

For a long time, there has been a race among camcorder manufacturers to deliver the longest zoom range. Sharp's VL-L510U is the current leader, with a 16x continuous zoom. It is a true optical zoom, not an electronic magnification. The power zoom may be set from six to 30 seconds for the full length of travel, for a graceful, long slow zoom not possible with any other consumer camcorder.

The autofocus system works to within a half inch of the lens at full wide angle and to about ten feet in full telephoto. As with all current AF systems, some subjects and operating conditions confuse it, but this one is relatively fast and accurate most of the time.

The camcorder's other features include a full-size head drum for a stabler picture with less jitter, a flying erase head for cleaner scene transitions and insert editing, and audio dubbing from mic or line sources. The one-touch full auto system delivers point-and-shoot simplicity, but can be turned off so users can select powered manual focus, white balance lock and any of five shutter speeds ranging up to 1/1000-second.

The supplied video light can be turned on from the camcorder. When the switch is set for sync, the light comes on automatically in dim light when in record mode. The backlight compensator (BLC) button doubles as a gain up selector. It has the usual remote pause jack plus one for remote zoom with an optional wired controller.

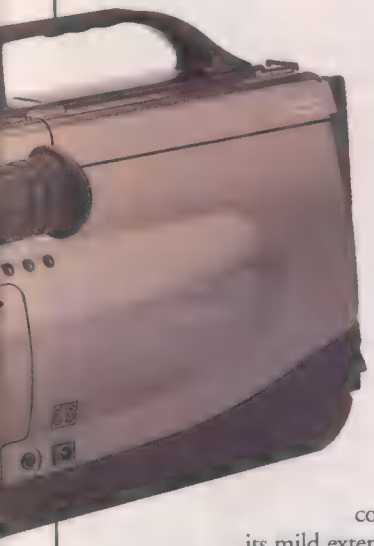
Operation. The VL-L510U is simple to use because it offers only basic features. Full auto lock eliminates control of (and concern for) high-speed shutter, auto white balance and focus. If it can't focus at tele setting, it reduces the tele range to a setting at which it can focus. The tele range switch can be set for maximum zoom ratios of 6x, 10x and 16x. This prevents a user from straying into longer focal lengths, at which it is more difficult to hold a steady shot.

The sync mode on the light switch makes using the light simple, and conserves battery power. With auto lock off, the user can select any of five shutter speeds, lock the white balance or select manual focus. The fade button sets the fade mode — an indicator appears in the finder, but the fade does not start until the user presses the run/pause button. The BLC/gain up control changes the sensitivity of the camera to compensate for backlit subjects or for poor lighting. Record review shows the last few seconds of a previous take.

Among the features we miss are edit search, titling and synchro edit. The front of the VL-L510U is heavy due to its long zoom range. A big plus is that the wide-angle range is slightly wider than normal — great for working in small rooms. Battery life is highly variable depending on usage of the run/pause, zoom and light. Ease of operation is good to very good mostly because of the front-heaviness.

Performance. The horizontal resolution of the recorder section is 240 to 250 lines with an unweighted signal-to-noise ratio of 45.7 decibels and a weighted video S/N of 52.9 dB. The chroma AM S/N is 44.6 dB and the chroma PM S/N is 39.8 dB. Although the

Sharp's VL-L510U



video S/N numbers are outstanding, they deteriorate rapidly at low light levels so use of the supplied light is strongly recommended in low light.

At the rated minimum light level of 3 lux the picture is barely discernible and quite noisy. To produce a contrast ratio of 50 IRE, subject illumination must be at least 9.5 lux. Picture quality is excellent for a VHS camcorder, except at low light levels.

The audio frequency response of the mono linear track is 75 hertz to 10 kilohertz, +0.1/-3 dB, with an audio S/N of 42.1 dB and total harmonic distortion of 1.2 percent. Audio dubbing within the camcorder makes it possible to replace unwanted audio with new sound from the microphone in camera mode or from the line input in VCR mode. Audio quality is excellent for linear track recording.

Conclusion. The Sharp VL-L510U is unique among consumer camcorders because of its 16x continuous zoom range, which is especially useful because of its mild extension at the wide-angle end. Audio and video quality are both excellent under optimum conditions, but the heavy zoom reduces ease of operation to good/very good. Overall performance is very good. If the extra zoom range is important to you, we recommend the camcorder highly.

SHARP VL-L510U DATA (continued)

rewind, auto rewind, video dub, hi-fi audio
Accessories: supplied — BT-22 battery, AC adapter/charger, clock battery, A/V output cable, DC output cable, RF converter, antenna cable and transformer, shoulder strap and video light; optional — extra batteries, car battery cord, pause remote cable, zoom remote cable, A/V input cable, spare lamps for video light

RESULTS

Horizontal Resolution: 240-250 lines
Video S/N, Unweighted: 45.7 dB
Video S/N, Weighted: 52.9 dB
Chroma AM S/N: 44.6 dB
Chroma PM S/N: 39.8 dB
Audio Frequency Response: 75 Hz-10 kHz, +0.1/-3 dB
Linear Audio S/N: 42.1 dB
Audio Distortion: 1.2%

RATINGS

Picture Quality: excellent for VHS
Audio Quality: excellent for linear track
Operational Ease: good/very good
Overall Performance: very good

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PANASONIC PV-7000 DATA

Suggested Price: $400
Weight: 17 pounds
Dimensions: 4-1/4 x 17-1/4 x 15-1/8 inches (h/w/d)
Power Requirements: 120 VAC, 60 Hz
Power Consumption: 21 W
Tape Formats: VHS/VHS-C
Tape Speeds: record — SP, SLP; playback — SP, LP (no effects), SLP
Video Heads: 4
Variable Speeds: no audio — 1/30x, 1/24x, 1/18x, 1/12x, 1/6x, 2x, 3x, 5x (SP), 7x, 11x, 13x (SLP), 21x (SLP), 31x (SLP)
Cue & Review (Search): locking — 7x, SP; 21x, SLP; non locking — 7x, SP; 13x, SLP
Fast Forward/Rewind Time: about 2-1/2 min. for T-120
Counter Digits: 5 — hrs:mins:secs shared with date display
Program Start Locator/Index/Cue: index — auto mark, search up to 99 marks in either direction; counter go-to
Linear Audio: mono
Tuning Method: frequency synthesis
Channel Selectors: programmable scan on VCR; scan plus direct access on remote
Preset Method: auto preset and manual add/delete
Broadcast Tuning Range: 2 to 13, 14 to 69
Cable Tuning Range: 87 channels, unspecified
Timer: 8-event/1-month
Special Features: auto play speed select, still frame, counter memory, auto rewind, separate eject (open/close), AFT, channel lock, auto channel-change
Absent Features: flying erase head, frame advance, remote pause, audio dub, video dub, insert edit, hi-fi audio

RESULTS

Horizontal Resolution: 240+ lines
Video S/N, Unweighted: SP — 43.8 dB; SLP — 44.6 dB
Video S/N, Weighted: SP — 51 dB; SLP — 50.6 dB
Chroma AM S/N: SP — 46.3 dB; SLP — 45.2 dB
Chroma PM S/N: SP — 40.9 dB; SLP — 39.6 dB
Audio Frequency Response: SP — 100 Hz-10 kHz, -3 dB; SLP — 100 Hz-4 kHz, -3 dB
Linear Audio S/N: 37.8 dB
Audio Distortion: 1.3%

RATINGS

Picture Quality: very good
Audio Quality: average
Operational Ease: good
Overall Performance: good

VIDEOTEST 577

PANASONIC

VHS / VHS-C VCR

Panasonic is the second to deliver a VCR that accepts Compact VHS cassettes without an adapter. The PV-7000 uses a slide-out drawer with a tilted template to position a VHS-C cassette. It is not equipped to record or play Super VHS cassettes or hi-fi sound. It has the appearance of an uncomplicated, no-frills machine.

Appearances are deceiving in this case. One look at the remote reveals many search systems, including multi-speed search/play, index, intro and even one for finding blank spots on a tape. There is even direct access to tape segments by counter number and, hidden in the second layer of a menu system, repeat playback for a segment or the whole tape. The menu system reduces myriad setup features to four buttons, cutting clutter on the remote and the front panel, but the user must remember what features exist and how to find them. If not, the adage "out of sight, out of mind" holds true.

The PV-7000 also boasts unusual features like a video stabilizer to reduce vertical jitter, and V-lock, which stops picture rolling. Another new wrinkle is the three-position switch for the time-remaining counter. The T-120 position works for TC-20 cassettes, the T-160 position works for TC-30s and a new automatic position lets the machine make its best estimate. A notable absence is the LP record speed, which follows the trend over the last few years. The deck carries many standard Panasonic features, such as auto programming, onscreen programming, four video heads and a real-time counter.

At a suggested price of $400, the PV-7000 is an excellent value.

Description. At 17 pounds, the PV-7000 is a bit heavier than most current VHS machines. The upper two-thirds of the front panel has a power button and indicator at the far left, followed by a large area that slides out to accept either a VHS or VHS-C cassette. In the cassette compartment, a sloping flap holds VHS cassettes at an angle until the drawer closes. A hole in the flap lets VHS-C cassettes sit flat and centers the tiny cassette's rewind reel over the spindle. The drawer is best closed using the open/close button, but gentle pressure on the top of a VHS cassette, the flap or the drawer also works.

Opening the door reveals that the external buttons at the right are just actuators to the real open/close, stop and play buttons in the compartment. The same group contains buttons for rewind/search, fast forward/search, pause/still, standby, one-touch record (OTR) standby, OTR channel up and channel down.

Operation. The combination of features on this VCR confuses us completely. The same designers who made this basic machine with few frills, like audio dub and synchro edit, included some of the most sophisticated and complex tape handling and search features available. It seems that it was not designed with the needs of VHS-C camcorder users in mind, because they would need at least synchro edit.

The machine seems to be designed for those who use a VCR mostly for recording broadcasts and watching prerecorded tapes. If this is the case, the omission of hi-fi audio and a stereo tuner is confusing. The combination of multiple functions on the same buttons could confuse less sophisticated users, as could some of the search functions. Operational ease is very good for technophiles, but only fair for techno-klutzes. Overall, we rate operational ease as good, but with reservations.

Conclusion. The Panasonic PV-7000 is confusing in that we can't decide exactly which group of video users it's intended for. Picture quality is very good, audio quality is average and ease of operation is good if you can find and use some of the features. Overall performance is good, however, we recommend a close look at the features to see if it offers those you need. It is certainly worth considering if it does. At a suggested price of $400, it is an excellent value.

VIDEOTEST 580

HITACHI

46-inch rear-projection monitor/receiver

Hitachi's CU4601B 46-inch monitor/receiver lives up to its billing as the brightest set in that size. It is only 27 inches deep, so it should fit in most rooms, as long as the user can watch it from at least eight feet away. The optimum viewing distance is ten to 15 feet. It boasts ten watts per channel for its stereo front amplifiers, a matrix/hall/Dolby decoder and five-watts-per-channel rear amplifiers, but the user must supply the rear speakers.

Hitachi's CU4601B 46-inch monitor/receiver lives up to its billing as the brightest set in its size.

Its horizontal resolution is rated at 825 lines. It sports one video/S-video input with jacks on both the front and the rear, so it accommodates high-resolution picture sources. Two additional video inputs on the rear panel, and switching from the set or the remote, make it a fitting centerpiece for an audio/video system. The multipage remote controls the TV set, a VCR, a cable box and one additional device.

Description. The CU4601B looks almost squat because the picture size is large relative to the cabinet and the height of the pedestal. Below the bottom bezel is a shiny strip with a power button and indicators for power, stereo and SAP. Lower down sits the speaker grille, above a skirt covering the casters.

To the left of the power switch is a compartment with duplicate S-video, video and stereo audio jacks for input 1, a button to call up convergence crosshairs and four rotary controls for horizontal and vertical adjustment of the red and blue images. On a black background are additional rotary controls for vertical sync and input balance. An adjustment tool for the rotary controls is stored in a hole further right.

The right end of the compartment holds buttons for video/S-video switching of input 1, antenna, menu, minus, plus, sound mode, picture mode, function, volume up and down, and channel up and down. The buttons are duplicated on the remote, except S-video, which is labeled AVX.

The rear jack panel has F-connectors for VHF/UHF, plus output and input for a cable converter. A depression holds a single S-video connector for input 1 and rows of RCA-type pin jacks, each with

continued on page 38

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HITACHI CU4016B DATA

Suggested Price: $3,000
Weight: 220 pounds
Dimensions: 48-1/2 x 42-1/2 x 27 (h/w/d)
Power Requirements: 120 VAC, 60 Hz
Power Consumption: 298 W max; 230 W av.
Screen Size: 46 inches
Speaker Size: 2 each — 6-inch woofer and 3-inch tweeter
Type of Tuning: frequency synthesis
Method of Tuning: programmable scan on set; scan plus direct access on remote
Broadcast Tuning Range: 2-13, 14-69
Cable Tuning Range: 125 channels — 2 to 13, 4A, A to I, A-5 to A-1, J to W, W+1 to W+28, W+29 to W+84
Remote Control: IR wireless with indicators for ready and learn, ■ TV/VTR/CATV/user switch, 12 multi-function buttons, and buttons for power, ■ 1 0-digit keypad, 100/enter, channel up and down, volume up and down, mute, last channel, AVX and recall
Video/Stereo Audio Inputs: 3, with duplicate of input 1 on front panel
S-Video Input: 1, duplicate on front panel
Video/Stereo Audio Output: 1, selected input, fixed audio level
Auxiliary Stereo Audio Output: 1, variable level
External Speaker Connectors: for rear channel only, built-in surround decoder
Internal Audio Amplifier Power: front — 10 watts per channel; rear — 5 watts per channel
Absent Features: tuner output, headphone jack
Accessories: remote control with batteries, antenna transformer

RESULTS

Horizontal Resolution: rated — 825 lines; verified to 700 lines
Snowiness; Luminance S/N: 55.2 dB
Chroma AM S/N: 63.1 dB
Chroma PM S/N: 61.7 dB
Accuracy of Colors: very good/good
Audio Frequency Response: fixed line — 20 Hz-20 kHz, +0.1/-1.1 dB; variable line — 20 Hz-20 kHz, +0.03/-2.7 dB; front speaker terminals — 20Hz- 15kHz, -3dB; rear speaker terminals — 20 Hz-12.5 kHz, +0/-2.6 dB
Audio S/N: 67.3 dB
Total Harmonic Distortion: fixed and variable — 0.6%; speaker — 1.1%

RATINGS

Picture Quality: very good
Audio Quality: good
Operational Ease: good
Overall Performance: very good

HITACHI CU4016B *from page 37*

video and stereo audio, for inputs 1, 2 and 3 plus output. There is also an output variable-level stereo audio.

The remote control comes programmed for most VCRs and cable boxes — you just have to press one button to tell it what brand you have. There is also one user-programmed page that may be programmed for an additional device. Up front are the power button, ready and learn indicators, plus 12 buttons with functions that change as a user switches between devices. Some multi-function buttons are labeled.

Nearer the user sit a ten-digit keypad and buttons for channel up and down, volume up and down, mute, 100/enter, last channel recall, AVX source switching and display recall. On the back is the battery compartment and a slide switch with positions for learn, use, and use with confirming beep.

Operation. Using the CU4601B is straightforward — just push the appropriate button for most operations. However, a menu system controls picture and sound. The system requires many pushes for each adjustment.

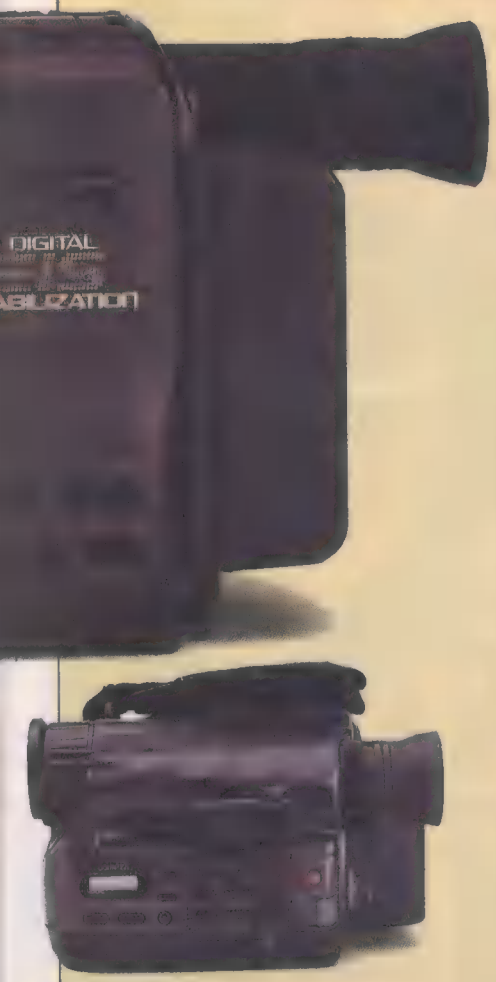
The picture mode menu offers options for picture, color, tint, black level, sharpness, auto color, dynamic noise reduction, notch filter, reset, preference and preference set. The sound mode menu lets a user adjust balance, bass, treble, rear volume, main/SAP audio, auto stereo/mono, matrix/hall/Dolby/off surround, speakers off, reset, preference and preference set. The main menu button controls set-up functions like air/cable tuning, auto program, station (call letters) memory, channel memory add erase, date/time set, program list, off (sleep) timer, all/program/easy scan and child lock. Easy scan lets a user store up to four favorite channels. One notable nuisance is that convergence must be adjusted at the set instead of from the remote. Working at arm's length, it is sometimes difficult to judge how the picture looks at normal viewing distance, so unless you have a helper, you'll have to move back and forth a lot. Unless you're very finicky, though, it does not require frequent adjustment. Operational ease is good.

Performance. The horizontal resolution of the CU4601B is rated at 825 lines and verified to more than 700 lines, with a luminance signal-to-noise ratio of 55.2 decibels. On a full red field the chroma AM S/N is 63.1 dB, and the chroma PM S/N is 61.7 dB. Accuracy of colors is good to very good, but whites have a more yellow tinge than some competing TV sets.

Rated at 460 foot-lamberts, this is the brightest rear-projection set we've ever measured. As with all display devices, we strongly recommend you see a demonstration of all the sets you're considering because color preference is a matter of personal taste. Picture quality is very good.

The audio frequency response at the fixed line output is 20 hertz to 20 kilohertz, +0.1/-1.1 dB. At the variable-level line output, it is 20 Hz to 20 kHz, +0.03/-2.7 dB. At the speaker terminals, it is 20 Hz to 15 kHz, -3 dB. At the rear channel speaker connectors, it is 20 Hz to 12.5 kHz, +0/-2.6 dB. The audio S/N is 67.3 dB and the total harmonic distortion is 0.6 percent at the fixed- and variable-level outputs, and 1.1 percent at the speaker terminals. Audio quality is good.

Conclusion. The Hitachi CU4601B is the brightest rear-projection monitor we've seen. It can be easily viewed even in a brightly lit room. Picture quality is very good and both audio quality and operational ease are good, so overall performance is very good. At a suggested price of $3,000 it is certainly competitive, but you must see the picture before you choose. With monitors, the measurements should support your choice, not determine it.



Take Five: The PV-40's one-shot record feature captures five seconds of video and audio.

VIDEOTEST 581

PANASONIC

camcorder with electronic image stabilization

Panasonic's newest Compact VHS camcorders carry the name Palmcorder, and all three look very much alike. The PV-10 and PV-20 have only basic features, but the PV-40 reviewed here offers many extras, including a unique electronic image stabilization (EIS) system that reduces the jiggle in pictures caused by camera shake. This is particularly useful for shooting with one hand, which we never recommend, but many do it anyway.

EIS records the image from only a part of the CCD. Motion sensors choose what part of the image to use for the most stable picture on a frame-by-frame basis. Unlike Panasonic's previous mechanical image stabilization system, this one has no moving parts.

The PV-40 has an 8x power zoom (but no manual zoom), six shutter speeds to 1/4000-second, auto tracking, digital autofocus with powered manual focus, recordable still or 1/6-speed strobe, a digital title memory with wipe or scroll, fade, auto/fixed white balance, record review and a date/time imprinter. Some of these features can help home shooters produce complete videos in the camera. Although it has a flying erase head, insert editing leaves a glitch at the out point, so shooting scenes out of order is not practical.

Description. The PV-40 is rectangular with rounded corners. At 5-3/8 inches high, 3-3/4 inches wide and 6-3/4 inches deep, it feels more comfortable to people with large hands. The right side is mostly bare but for an external microphone jack in the top front corner and the support strap that goes around the back of the hand. The rounded corners camouflage the clock battery compartment. Depressions help the fingers find and use the wide-angle and telephoto buttons on the top and the record run/pause button at the rear.

The viewfinder tube projects rearward. For operation, it must be extended and focused. The battery occupies most of the rear panel, along with the power switch and an indicator, an eject button and a shoulder strap loop. The DC input jack and the second strap loop are below. On the right side sit the battery release and covered output jacks for video, audio and DC for the RF adapter.

Most of the camera controls are on the left side, which serves as the hatch for the cassette compartment. Across the top a transparent bar lets you see the cassette's supply

continued on page 42

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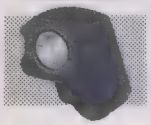

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- Fuzzy Logic AF
- Wireless remote
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- Auto tracking focus
- Advanced AF Macro
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- Built-in titler
- Wireless remote
- 20x high speed search
- 180° FlexiGrip
- Electronic view-finder displays

Canon H800

8

8x PowerZoom
Hi-Fi Stereo Sound

- Flying Erase Head
- Wireless remote
- Versatile titler
- 20x high speed search
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- White fade
- Record Search
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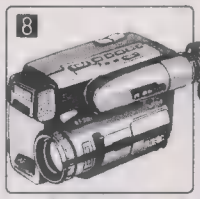

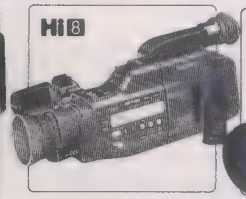

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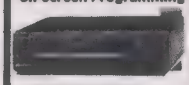

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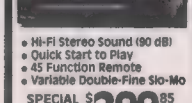

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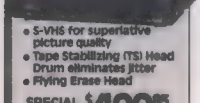

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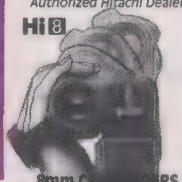

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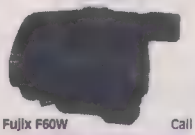

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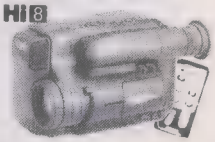

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PANASONIC PV-40 DATA

Suggested Price: $1,299
Weight: camcorder without battery and cassette — 1.7 pounds; battery — 0.7 pounds
Dimensions: 5-3/8 x 3-3/4 x 6-1/4 inches
Power Requirements: camcorder — 6 VDC; AC adapter — 110-240 VAC
Power Consumption: camcorder — 10 W; A C adapter — 20 W
Image Sensor: CCD
Lens: f/1.8, 8x (6-48mm) power zoom
Filter Diameter: 30.5mm
Minimum Focusing Distance: wide-angle — almost to the surface of the lens; tele — about 3 feet
Autofocus: TTL digital
Minimum Illumination: rated — 5 lux; measured — 7.8 lux
Iris: automatic
Sensitivity: single range
High Speed Shutter: normal, 1/100-, 1/250-, 1/500-, 1/1000-, 1/2000- and 1/4000-second
White Balance: automatic, switchable to indoor or outdoor
Viewfinder: 2/3-inch CRT with onscreen indicators for operating mode, battery condition, date/time, shutter speed, tape warnings, dew, head clog, EIS, title memory/modes, index and tape counter/remaining
Viewfinder Controls: magnifier focus, brightness and electrical focus
VCR Controls: all — eject, pause/still, stop, rewind/search, play, fast forward/search and record speed
Microphone: omnidirectional electret condenser
Jacks: external mic, DC input, video out, DC out and audio out
Tape Format: VHS-C
Tape Speeds: SP, SLP
Video Heads: 4 (required by small head drum)
Cue & Review (Search): SP — 3x; SLP — 9x
Fast Forward/Rewind Time: approx. 3-1/4 min. for TC-20 Counter
Digits: 4 — mins. and secs.; time remaining, 2 — mins.
Program Start Locator/Index/Cue: counter and index
Linear Audio: mono
Special Features: flying erase head, auto play speed select, still frame, hold-down auto fade, separate eject, counter memory, auto rewind, digital strobe and still, electronic image stabilization, one-shot record
Absent Features: audio dub, video dub, insert edit (glitch at out point), frame advance, slow motion, speed play, remote pause, remote control, hi-fi audio, digital audio

PANASONIC PV-40 *from page 39*

reel. Just below the bar sit relatively large buttons for title, EIS and fade. The lower rear corner holds BB-sized buttons for the shutter, white balance, auto/manual focus, title wipe, title color and title memory. Also in this area are elongated buttons for strobe and manual focus adjustment.

The playback controls cover the top panel. An LCD provides information on counter, memory, time remaining, operation mode, dew and low battery plus buttons for counter reset, lap time/counter/time remaining display, record review, date/time imprinting and EVF display. Near the back of the top panel is a one-shot record button that captures five seconds of audio and video. In between is a covered compartment with slide switches for SP/SLP record and TC-20/TC-30 for the tape remaining indicator, plus buttons for clock select and set (which double as tracking controls), pause/still, stop, play, rewind/search and fast forward/search.

The two search controls are also operational during camera recording, so users can do in-camera assemble edits, but insert editing is not possible because of the glitch at the out point. At the front of the camcorder are the mic and lens, and the bottom has a tripod socket.

Operation. Using the PV-40 is fairly easy. Attach a charged battery or the cord from the adapter and slide the power switch to either camera or play position. In camera position the basic controls are the run/pause under the right thumb, wide-angle and tele buttons on the top surface and the buttons on the left for fade, title and EIS. The memory button creates superimposed titles.

There are eight colors available in normal or reverse mode, and titles may be wiped up or down, or scrolled from the bottom. You may also imprint date or time and date (but not time only). Advanced users may miss options like backlight control, manual zoom, direct adjustment of manual focus and audio/video inputs.

The PV-40 may be used as the player for editing, but the lack of a synchro edit terminal may reduce the accuracy of edit points. One noteworthy feature is the refresh mode on the AC adapter charger. This drains the battery completely before recharging it, to achieve a full charge even when the battery is not drained completely in normal use. Refresh charging takes about ten hours compared to two hours for standard charging. Like most current AC adapters, it accepts voltages from 110 to 240 at 50/60 Hertz, so transformers are not normally needed overseas but plug adapters might be required. Ease of operation is very good.

Performance. The PV-40 delivers 240 to 250 lines of horizontal resolution with an unweighted video signal-to-noise ratio of 35.8 decibels at SP and 35.6 dB at SLP. The weighted video S/N is 44.4 dB at SP and 43.6 dB at SLP, while the chroma AM S/N is 39.8 dB at SP and 38.6 dB at SLP, and the chroma PM S/ N is 34.9 dB at both SP and SLP. The camera is rated for a low light sensitivity of five lux. We measured a light requirement of 7.8 lux for 50 IRE units.

The EIS effectively reduces the jiggle of handheld shots, especially those made holding the camera with only one hand. There is a penalty — with EIS, the effective shutter speed is 1/100-second, so more light is required to make an acceptable image and the EIS is not usable in low light. Picture quality is good to very good compared to standard VHS and VHS-C camcorders.

The frequency response of the mono linear audio track is 100 Hz to 9 kHz at SP and 100 Hz to 4 kHz at SLP with an audio S/N of 42.2 dB and a total harmonic distortion of 1.1 percent. This is average to good for mono linear track VHS recordings.

Conclusion. The Panasonic PV-40 produces good to very good pictures, but its EIS system puts it a notch above its competitors, especially for those who like to shoot with one hand. It is also very useful for shooting from a moving vehicle. Audio quality is average to good and ease of operation is very good. Overall performance is very good. The feature package offers much for in-camera production. We recommend it for those who want a hassle-free camcorder.

Versatile Vidikron: The TGS 200 provides BNC and RCA video input jacks, as well as inputs for S-video, analog RGB and TTL RGB.

PANASONIC PV-40 DATA (continued)

Accessories: supplied — AC adapter/charger, 1.5-hr. battery, clock battery, RF adapter, A/V cable, VHS-C adapter, shoulder strap, RF cable and transformer; optional — car battery cord, case, mic, video corrector, shoe adapter.

RESULTS

Horizontal Resolution: 240-250 lines
Video S/N, Unweighted: SP — 35.8 dB; SLP — 35.6 dB
Video S/N, Weighted: SP — 44.4 dB; SLP — 43.6 dB
Chroma AM S/N: SP — 39.8 dB; SLP — 38.6 dB
Chroma PM S/N: SP & SLP — 34.9 dB
Audio Frequency Response, -3 dB: SP — 100 Hz-9 kHz; SLP — 100 Hz-4 kHz
Audio S/N: 42.2 dB
Audio Distortion: 1.1%

RATINGS

Picture Quality: good to very good for VHS
Audio Quality: average to good
Operational Ease: very good
Overall Performance: good to very good

VIDEOTEST 582

VIDIKRON *video projector*

The Vidikron TGS 200 is a front-projection monitor manufactured by Boffi Vidikron, Italy's leading manufacturer of advanced audio and video components, and marketed here by Vidikron of America (150 Bay Street, Jersey City, NJ 07302; phone 201-420-6666). The $5,995 TGS 200 is the more powerful of two monitor projectors in the current line. The other is the TGS One ($4,495), and both are available with either a black or a white chassis. They may be ceiling- or floor-mounted and work with a range of screen sizes from six to seven feet on curved screens and seven to 12 feet on flat screens. A screen is not included with either projector.

The TGS 200 has two video/stereo audio inputs, one S-video/stereo audio input, an analog RGB/stereo audio input on a SCART connector and a TTL RGB input on a nine-pin D-connector. There are no speakers, but a stereo amplifier can deliver ten watts per channel to eight- or 16-ohm speakers. There are also variable-level line outputs for driving an external audio system.

Although there are controls for volume, brightness, color and a few other functions on the back of the projector, the primary control is the remote, because the back is usually inaccessible.

Description. The TGS 200 is streamlined and fairly compact so it is unobtrusive when mounted on the ceiling. It also fits in an optional coffee table (model CT One) that holds it the recommended 7.5 inches from the floor. The coffee table has a second shelf that can accommodate a VCR or laserdisc player. The projector itself is about ten inches high, 22 inches wide and 25 inches deep, and it weighs 59 pounds.

The three lenses protrude from the front. The top and the sides are bare but for ventilating holes. The bottom has an adjustable mounting plate. The back panel holds all connections and exterior controls, including mini plugs for speaker-level output, RCA-type pin jacks for line-level stereo output, an LED display panel that should display "1" under normal operating conditions, and a double row of up/down buttons

continued on page 46

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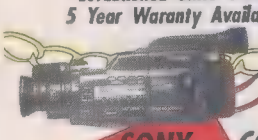

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VIDIKRON TGS200 DATA

Suggested Price: $5,995
Weight: 59 pounds
Dimensions: 9-1/8 x 21-3/4 x 24-1/2 in.
Power Requirements: 120 VAC, 60 Hz
Power Consumption: 150 W
Screen Size: screens are an option; recommended sizes are 6 to 12 feet diagonally, and to 20 feet diagonally with optional $1,700 factory upgrade HD-6 Data Graphic Lenses
Remote Control: IR wireless
Video/Stereo Audio Inputs: 2 — input 1 with RCA-type video connector; input 2 — with BNC video connector
S-Video/Stereo Audio Input: 1 — input 3
RGB Video/Stereo Audio Input: 2, switch selectable — analog video on SCART connector; digital video on 9-pin D-connector
Auxiliary Stereo Audio Output: variable level stereo — RCA-type pin jacks
External Speaker Connectors: mini jacks
Internal Audio Amp Power: stereo-10 w/ch
Absent Features: speakers, tuner, video output, headphone jack
Accessories: supplied — power cord, remote control and batteries; optional — curved screens — HGS6 6-foot, $615; HGS6.5 6.5-foot, $730; HGS7 7-foot, $830; FS 10 stand for HGS screens, $175; electrically operated retractable flat screens — FES72 72-inch, $655; FES100 100-inch, $755; FES120 120-inch, $815; VTS 5+1 theater speaker system, $899; CPL200 ceiling projector lift, $2,970; WBIT-1 isolation transformer-hum stopper, $170; RCR 1 remote control relay for obstructed IR sensor, $65; Zero Home Theater System wall module, $2,995

RESULTS

Horizontal Resolution: rated — 500 lines; measured — more than 560 lines
Snowiness; Luminance S/N: 59.1 dB
Chroma AM S/N: red — 68.4 dB
Chroma PM S/N: red — 67.7 dB
Accuracy of Colors: very good
Audio Frequency Response: line — 50 Hz-20 kHz, +0.2/-1.8 dB, down 5.6 dB at 20 Hz; speaker — 50 Hz-20 kHz, +0/-1.4 dB, down 6.4 dB at 20 Hz
Audio S/N: line — 67.3 dB; speaker — 61.1 dB
Total Harmonic Distortion: line — 0.5%; speaker — 1.2%

RATINGS

Picture Quality: very good
Audio Quality: very good/average
Operational Ease: very good
Overall Performance: very good

VIDIKRON TGS200

for memory recall, power, volume, brightness and color. The PC button paired with memory is inoperative in the North American NTSC version.

Further right sit groups of connectors for S-video and stereo audio, video 2 (BNC) and stereo audio, analog RGB/stereo audio, TTL digital RGB, video 1 (RCA) and stereo audio, electric screen remote and AC. Nearby are the master power switch and five rotary controls for centering and horizontal keystone. These controls rarely require adjustment after initial setup. The remote has test buttons near the front and buttons across the middle for volume, brightness, color, contrast, memory recall and mute. Memory recall sets the controls to levels memorized by the memory button below.

The row nearest the user contains buttons for VCR (which eliminates bending at the top of pictures from VCR sources), second function (which changes the function of the color and contrast up/down buttons to control tint and sharpness), select (which lets a user choose the input source), TTL/analog (which lets a user select the RGB input) and power off.

Operation. Installing a front projector, especially on the ceiling, is best left to a professional. Although Vidikron supplies the dealer's installation manual with the projector, setup of internal controls and the external centering and keystone controls is also best left to the professional. Once set, they rarely need adjustment.

The remote controls power and input switching, volume and mute, picture preference adjustment and selection of the VCR time remain constant if a VCR picture has flagging. If a Vidikron flat screen is used, turning the projector on automatically lowers the screen. It retracts when the projector is turned off. Installation of a powered screen is also best left to professionals. One of the nicest features is that a user can memorize a picture preference setting to be recalled at the touch of a button. Ease of operation is excellent.

Performance. The TGS 200 is rated for a horizontal resolution of 500 lines from composite video sources, and it delivers more than 560 lines. It is rated for 900 lines from RGB sources. The video signal-to-noise ratio is 59.1 decibels and the chroma AM S/N is 68.4 dB at the red gun, while the chroma PM S/N is 67.7 dB. Accuracy of colors is very good with a color temperature of 7800 degrees Kelvin for white. The picture tubes run slightly below their rated maximum voltage. This extends their life from the usual 3,000 hours to about 9, 000 hours before replacement is recommended.

With front projectors such as the TGS 200, a single reading for picture brightness is incomplete because curved screens look brighter than flat ones and smaller images are brighter than large ones. The peak white output is rated at 600 lumens. With a ten-foot image, peak white measured on a calibrated 90-percent reflectance flat card is 130 foot-lambert . Picture quality is very good and competitive with projectors in this price range.

The audio frequency response at the line-level output is 50 hertz to 20 kilohertz, +0.2/-1.8 dB, down 5.6 dB at 20 Hz with an audio S/N of 67.3 dB and a total harmonic distortion of 0.5 percent. This is very good for driving a hi-fi system. The only reason for routing audio through the projector is to get the volume control on the same remote as the projector controls.

The modestly powered ten-watt-per-channel internal stereo audio amplifier is more a courtesy than a primary audio amplifier for a well-designed system. It has a frequency response of 50 Hz to 20 kHz, +0/-1.4 dB, down 6.4 dB at 20 Hz with an audio S/N of 61.6 dB and a total harmonic distortion of 1.2 percent. Performance of the internal amplifier is average.

Conclusion. Like most front projectors, the TGS 200 works best in a darkened room. Under such conditions, picture quality and ease of operation are both very good. The quality of the audio routing for volume control is very good, but the internal audio amplifier is only average. Its overall rating is very good. At a suggested price of $5,995, the TGS 200 is a good value.

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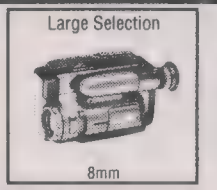

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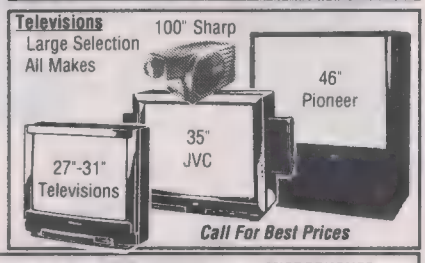

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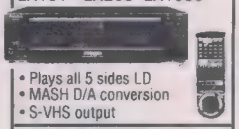

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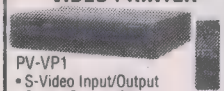

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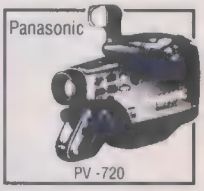

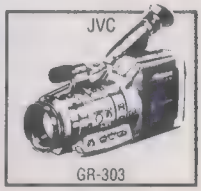

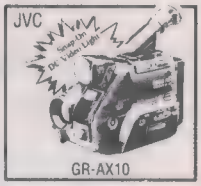

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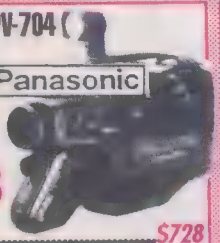

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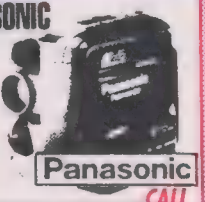

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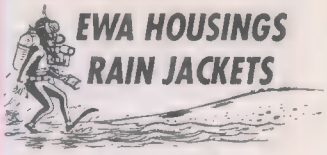

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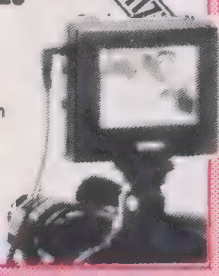

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Front Panel Indicators: LEDs for popular one, popular two, popular three, Dolby Pro-Logic, movie surround, classical one, classical two, mono enhance and stereo bypass listening modes; 16-, 22-, 28- and 32-millisecond delay; -3 dB, Dolby and -20 dB input levels; mute, high-frequency EQ, center front, alternate logic, noise sequencer, autobalance, tape monitor and single LED level indicators for front, left, right and back
Remote Control: IR wireless with buttons for volume up and down, back up and down, center, mode up and down, delay up and down, mute, alternate logic, high-frequency EQ, center front and power
Stereo Audio Inputs: 3 — main input, tape monitor and power amp
Line Audio Outputs: stereo — front, subwoofer, side and rear; mono — center front and subwoofer
External Speaker Connectors: stereo — spring-loaded clips for internal amplifier
Internal Audio Amplifier Power: stereo — 40 W into 4 ohms or 30 W into [illegible] ohms
Accessories: supplied — remote control with 9-volt battery; optional — sensor for remote power on/off

RESULTS

Audio Frequency Response: main channels — 5 Hz-20 kHz, +0.1/-0.9 dB, rated to 100 kHz, -3 dB; surround channels rated — 5 Hz to 25 kHz, to 7 kHz or to 3 kHz depending on operating mode; subwoofer measured — 5-80 Hz, -1.3 dB, rolloff 12 dB/octave above 80 Hz
Audio S/N: all outputs measured — 92.3 dB; rated — better than -90 dB, "A" weighted
Total Harmonic Distortion: measured — 0.04% worst case; rated — 0.05%, -6 dB below maximum output

RATINGS

Audio Quality: excellent
Operational Ease: very good
Overall Performance: very good/excellent

Time Machine: Fosgate's DSL Two is the first decoder with Dolby Time Link, a new delay system with a rated dynamic range of more than 100 decibels.

VIDEOTEST 584

FOSGATE-AUDIONICS

surround sound processor

The DSL Two Pro Plus digital servo logic surround sound processor manufactured by Fosgate-Audionics (Box 70, Heber City, UT 84032; phone, 801-654-4046) differs from its competitors in that the steering logic that determines what sound goes to which speaker operates much faster. This improves accuracy and smoothness and eliminates audible artifacts. It uses pulse-width modulation control voltages in servo feedback loops to create low-distortion steering signals. The result is open sound from discrete channels, rather than a smear of sound from multiple speakers.

Dual-band processing contributes to the purity of the sound by avoiding filters and phase errors. The DSL Two uses Dolby's Time Link digital delay system, which does not add harmonic distortion and is comparable to an analog system.

Additional features include autobalancing of input signals, variable sound stage width, a noise sequencer for accurate setup, a comprehensive display, up to 18 decibels of bass boost centered at 40 Hertz and a high-frequency EQ mode that compensates for soundtracks recorded with X-curve theater equalization.

The decoder's eight operating modes — popular one, popular two, popular three, Dolby Pro-Logic, motion picture surround, classical one, classical two and mono enhance — use various combinations of stereo/mono surround, surround bandwidth adjustment and delay to create natural-sounding environments. An alternate logic mode, usable in all modes except Dolby Pro-Logic, slows the response time of the decoder for use with substandard program material.

The DSL Two has outputs for front left, front right, center, stereo and mono subwoofer, stereo rear and stereo side channels. It derives the side channels from both front- and rear-channel information, so there is a smooth sound field with little timbre shift in most modes. Overall, the DSL Two offers a large number of options, from accurate rendering of perfect source material to saving audio disasters, be they from movies or music.

Description. The DSL Two is sized to match most video equipment. Because of its internal amplifier it should be installed so it gets adequate ventilation. The controls, indicators, inputs and outputs are listed in the box.

The front panel's most noteworthy feature is its comprehensive display. This display shows the mode in use, the delay level, the input level, the relative intensity of sound in front, left, right and rear, and the status of special features like autobalance.

The rear panel is like those of many other decoders, with the addition of connectors for the rear-channel speakers and jumpers that connect the rear-channel line outputs to the internal stereo amplifier. Dual rows of screwdriver controls above each pair of outputs can be used to set output levels. These controls are primarily needed to set up a system,

after which further adjustment should be needed only if the user changes components. There is also a jack for an optional remote power sensor, which turns the outputs off when the rest of the system is turned off. The remote controls power, master volume, rear-channel level, mode, delay, mute, center speakers on/off, high-frequency EQ on/off and alternate logic on/off.

Operation. Installation is straightforward. Hiding the wiring will be a bigger job than making the connections, because the outputs are clearly labeled. The manual outlines a basic nine-step hookup procedure for three system configurations. The balancing of channel levels is critical, but simplified by the noise sequencer and rear-channel setup level controls. The manual clearly explains each surround mode.

After setup, operation is simply a matter of choosing the input level, listening mode and delay time. The wide range of imaging and equalization choices allows a user to tailor reproduction to practically any source material and room. Ease of operation is very good once you grasp the concept.

Its audio quality is excellent, its ease of operation is very good, and overall performance is very good to excellent.

Performance. The main channels have a measured frequency response of 5 Hz to 20 kHz, +0.1/-0.9 dB, and are rated to 100 kilohertz at -3 dB. The bass boost affects only the front and subwoofer channels. We verified the subwoofer response at 5 Hz to 80 Hz with a 12 dB/octave rolloff above 80 Hz. The rear channels are rated for a frequency response to 7 kHz or 3 kHz, depending on the operating mode. We were unable to test this directly, but they did not appear to have content above the specified frequencies for the selected mode.

The signal-to-noise ratios of all channels are better than 90 dB, as specified. We measured them at 92.3 dB, worst case. The S/N for the Dolby Time Link circuitry, which we did not test separately, is rated at better than 95 dB. Audio quality is excellent.

Conclusion. The Fosgate-Audionics DSL Two is a versatile surround sound processor because it offers a large number of channels, nine surround modes and control over frequency response, delay and many other decoder parameters. Its audio quality is excellent, its ease of operation is very good, and overall performance is very good to excellent. At a suggested price of $1,299, it is highly competitive with the best surround processors.

GETTING PERSONAL

Jim Sandusky, Personal Video Marketing Manager for Sony, believes that there are a few aspects of buying portable video products that must be evaluated. Here are his portable video buyer's guidelines:

(1) THE SIZE COUNTS
"The whole point is to have a portable video system, so make sure that the product is in fact small and easy to carry around."

(2) SCREEN SHOTS
"There are generally two types of screens: active matrix and passive matrix. Active matrix is recommended because it offers the best color purity and contrast. And the screen should be at least 3.5-inches in size or larger. This is an adequate size for viewing by one or two people at the same time."

(3) JACK PACK
"Try to go for a model that has two or more headphone jacks, just in case more than one person will want to watch at the same time."

continued on page 59

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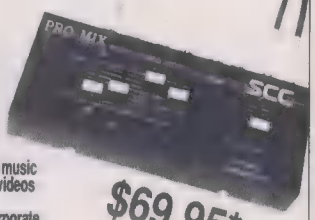

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Code One: Sony's CCD-V801 is the first camcorder with RC time code, which tags each frame with the hour, minute, second and frame number.

SONY CCD-V801 DATA

Price: $1,900
Weight & Size (h /w/d): 2.9 lbs...; 5-1/2 x 4-1/4 x 14-1/4 inches
Image Sensor: 1/2-inch CCD; 410,000 gross pixels
Lens: f/1.8, 10x (8-80 mm) variable-speed power zoom with macro
Filter Diameter: 46mm
Minimum Focusing Distance: 4.3 feet excluding macro range
Autofocus: TTL, switchable to manual
Minimum Illumination: rated — 4 lux; measured — 4.3 lux for 50 IRE
Iris: auto/manual with 16 — 0.5 EV steps to f/19
Auto Fade/Overlap: about 4 secs.
Sensitivity (dB): switchable -3 to +18 in 8 steps
Shutter Speeds (sec.): 27 steps from 1/10,000 to 1/60 (normal)
White Balance: full auto, push button auto, indoor and outdoor settings
Viewfinder: tiltable EVF with LED for camera recording and indicators for custom mode, macro, white balance mode, fader and programmed auto exposure, battery, tape, moisture, head clog and caution, Hi8, LP playback, tape/camera operating mode, tape counter, title number/color/mode, zero memory/index mode and date/time
Viewfinder Controls: magnifier focus, tilt up/down, position and viewing hood releases
VCR Controls: stop, rewind/search, play, fast forward/search, pause, record, slow

continued on page 54

VIDEOTEST 590

SONY

camcorder with time code

Sony's CCD-V801 is the first consumer camcorder with a frame-accurate time code generator. Its Rewritable Consumer (RC) time code is a new type not directly compatible with existing codes like SMPTE, VITC or RAPID. RC time code tags each frame with the hour, the minute, the second and the frame number.

The V801 also inserts a separate data code with the date and the time. The data and RC codes are written by the video heads between the video and the PCM audio tracks. It may be added to any 8mm tape without altering the information already on the tape, and is invisible to machines not equipped to read it.

Sony also offers the $1,000 RM-E700 editing controller/titler, which uses the code for accurate editing with any VCR or camcorder that accepts LANC, Control S or infrared signals. The RM-E700's accuracy depends on the consistency of the recorder's performance, because it has a timing adjustment to compensate for the recorder's pre-roll time.

Except for time code and a slightly longer zoom, the V801 is virtually identical to Sony's CCD-V101 and Ricoh's R-808H ("Videotests," Sept. '90). It reprises all the V101's extensive capabilities, including AFM stereo sound, index marking, dual titlers, remote control and frame record; recordable custom contrast, color, hue and sharpness; auto exposure modes; sport, portrait, shutter priority and aperture priority and 27 shutter speeds, 16 aperture choices and eight gain levels.

Description. The V801 is nearly an inch longer than the V101 because of its 10x zoom lens. The long LCD on the left side is full of information, much of which is duplicated in the viewfinder. Titler control buttons sit above the LCD, and time and date buttons sit forward of it

Below are a spring-loaded thumbwheel, a full auto lock switch and manual select buttons for auto exposure mode, iris, shutter speed, gain, fader, focus, one-shot autofocus, white balance and white balance lock. The eject button and battery release occupy the rear edge of the machine.

Over the transport sit a camera/off/VTR switch, transport controls and a data

continued on page 54

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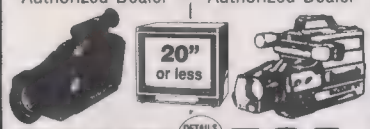

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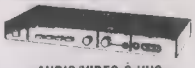

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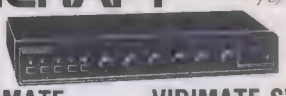

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screen button. Buttons for menu, cursor control, execute, slow, frame advance forward and frame advance reverse hide under a nearby flap. A control group over the camera section contains buttons for subsidiary run/stop, counter reset, return to zero, index and an edit search rocker. The zoom rocker, main run/stop switch and standby switch occupy the usual positions.

The outer edge of the hand grip holds jacks for LANC and headphones. A covered compartment further back contains jacks for S-video, video, stereo audio and DC output, plus an input/output switch. Near the front are the stereo microphone, a wind noise switch and jacks for an external stereo mic and mic power. The battery attaches at the rear.

The front has the same layout as most Sony camcorders, with the addition of a translucent white window in the lens cap for manual white balancing. The remote control duplicates the camcorder's transport controls. It also has a zoom rocker, buttons for 2x play, time code write, and index mark and erase, plus a hold switch that disables it . The camcorder's infrared sensor faces forward — perfect for shooting, but not as convenient for playback.

Operation. In full auto mode, the V801 is as easy to use as the simplest camcorders. The manual options are not difficult to use, but some knowledge, study or experimentation is needed. The focus and white balance controls operate like those on other camcorders. The high-speed shutter gives choices of 1/100-, 1/1,000-second and normal (1/60). Turning the thumbwheel accesses other speeds. Manual control of aperture or gain can only be achieved from an auto exposure mode.

RC time code writing is automatic. The dual titlers may be scrolled up or down and used together. Onscreen displays and the LCD display keep the user informed of options and warnings. Onscreen menus let the user select such functions as remote control on/off, slow/still picture adjust, four-frame record (for animation), RC time code/normal counter, contrast, color, sharpness and hue preset. A demo mode runs through the manual options. The data screen button displays viewfinder information on the output signal.

The direction of all the play modes can be reversed with the frame advance buttons. Index marks are recorded manually in record or playback, and erased only in play back. Index search for up to 99 marks is available. Ease of operation in full auto mode is excellent. In manual mode, it is very good, but only because you have to think.

Performance. In Hi8, the V801's horizontal resolution is 400 lines with an unweighted luminance signal-to-noise ratio of 42.1 decibels. The weighted luminance S/N is 51 dB, while the chroma AM S/N is 41.5 dB and the chroma PM S/N is 39.3 dB. On standard 8mm tape, horizontal resolution is 250 lines with an unweighted video S/N of 43.8 dB. Weighted video S/N is 50.8 dB. Chroma AM S/N is 45.5 dB and chroma PM S/N is 39.8 dB.

Camera resolution is more than 410 lines. It delivers 50 IRE units at light levels as low as 4.3 lux with the gain adjustment at zero decibels. Color rendition is excellent; however, contrast, color, hue and sharpness are all adjustable in record mode.

The V801's performance is better than that of the CCD-V101 in all areas. The V801's picture quality is very good to excellent. The only Hi8 camcorder that exceeds it is Sony's CCD-V5000 ("Videotests," Aug. '90). Audio frequency response on the stereo AFM tracks is 4520 Hertz to 15 kilohertz, +0.2/-2.7 dB, down 5.2 dB at 20 Hz and 5.7 dB at 20 kHz. Audio S/N is 76.4 dB and the total harmonic distortion is 0.3 percent. Audio quality is very good to excellent by 8mm and Hi8 standards.

Conclusion. The V801 is unique among consumer camcorders because of its RC time code, which should allow more precise editing when combined with the RM-E700 editing controller/titler. Otherwise, it is even better than Sony's outstanding V101, with a longer zoom and improved audio and video performance. Its overall performance is very good to excellent. At $1,900, it is an excellent value which we recommend highly.

SONY CCD-V801 DATA (continued)

and frame advance forward and reverse
Microphone: stereo with wind switch
Jacks: S-video in and out, video in and out, stereo line audio in and out, DC out for RFU, LANC, headphones, external stereo mic and mic power
Formats: Hi8, 8mm
Video Heads: 2
Cue & Review Search: approx. 9x
Visible Fast Forward and Rewind: Skip Scan — hold down fast forward or rewind button in fast forward or rewind mode
Fast Forward/Rewind Time: 6-1/2 min. for E6/P6-120 cassette
Remote Pause: LANC (Control L)
Remote: IR wireless with buttons for start/stop, zoom, play, fast forward/search, rewind/search, stop, pause, frame advance/play direction, slow, record (2), data screen, index, mark, erase, counter reset, zero memory and hold switch
Program Start Locator/Index/Cue: index with mark and erase
Audio: hi-fi AFM stereo
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Special Features: RC time code, still frame, bidirectional frame advance, 1/5x and 1/30x slow motion, 2x play, insert edit, auto rewind, counter memory, separate eject, edit search and flying erase head
Absent Features: PCM audio, A/V dub
Accessories: wireless remote control with batteries, NP-66H 75-min. battery pack, AC-V65R 100-240 VAC 50/60 Hz AC adapter charger, CR-2025 lithium clock battery, RFU-90VC RF adapter, Hi8 cassette, shoulder strap, jack covers, lens cap, video/stereo audio cable and S-video cable

RESULTS

Horizontal Resolution: 400 lines, Hi8; 250 lines, 8mm
S/N Ratios (dB): Hi8 luminance — 42.1 unweighted, 51 weighted; 8mm video — 43.8 unweighted, 50.8, weighted; chroma AM — 41.5 Hi8, 45.5 8mm; chroma PM — 39.3 Hi8; 39.8 8mm
Audio Frequency Response: AFM — 40 Hz-15 kHz, +0.2/-2 .7 dB, down 5.2 at 20 Hz and 5.7 at 20 kHz
Dynamic Range: 76.4 dB
Audio Distortion: 0 .3%

RATINGS

Picture: very good/excellent
Audio: very good/excellent
Ease of Use: manual mode — very good; auto mode — excellent
Overall Performance: very good/excellent

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Canon E-08 8MM MOVIE 8x Zoom, HIFI Stereo, Remote Control, Ultra Compact

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CANON L1 DATA

Suggested Price: $2,999
Weight & Size (h/w/d): camera body-3.1 lbs, 15x lens-1.8 lbs, battery—0.6 lbs; 6-1/2 x 6-3/4 x 13-1/2 inches with 15x lens mounted
Power Use: 6 VDC, 8.6 W
Image Sensor: 1/2-inch CCD, 410,000 pixels
Lens: interchangeable; supplied—f/1.4-2. 1, 15x (8-120mm) power zoom with macro wide and telemacro ranges
Filter Diameter: 72mm
Minimum Focusing Distance: 28 inches (telemacro)
Autofocus: piezo-type for VL or EOS (with adapter) lenses
Minimum Illumination: rated—0.5 lux with gain up at f/1.4; measured—6.7 lux for 50 IRE in normal shooting
Iris: auto/continuous manual
Auto Fade: to white or memory lap dissolve
Shutter Speeds (sec.): normal, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
White Balance: 4-zone auto/lock
Viewfinder: through-the-lens/electronic, with diopter, indicators and on screen indicators for tape counter, tape end, no cassette, low battery, dew, date battery, interval timer, self timer, eject, transport functions, input mode, exposure meter, WB set, shutter speed, menu, Hi8, title, date/time, program timer, AF zone, audio level display, manual, close-up, overlap, freeze, art and strobe
Viewfinder Controls: diopter focus, vertical viewing angle and tally light/remote sensor switch
VCR Controls: all—record, pause/still, stop, rewind/search, play, fast forward/search and eject
Microphone: removable; electret condenser, stereo/zoom
Jacks: earphone, mic, mic power, LANC remote, stereo audio, mono audio, video, S-video and DC out for RF adapter
Tape Format & Speed: Hi8/8mm; SP
Video Heads: 2
Cue & Review Search: 9 x forward, 7x reverse; 20x high speed
Fast Forward/Rewind Time: approx. 6 min. for 120 min. tape

VIDEOTEST 589

CANON

Hi8 camcorder with interchangeable lenses

Canon's L1 Hi8 camcorder, the first consumer model to accommodate interchangeable lenses, marks a major breakthrough in camcorder design. It comes with a powerful, and detachable, 15x zoom lens, while an 8x lens is available as an option. Of equal significance, an optional adapter lets the L1 use Canon's EF-series 35mm camera lenses.

In other areas, the L1 improves an already successful formula established by Canon's A1 camcorders. The L1 adds digital effects, some of which are recordable, and adjustable audio recording levels. The recordable digital effects are close-up; a digital zoom that doubles the effective lens range; freeze, for still capture; and animation, art freeze and gain up, which captures light during several frames and records it as a single image for low-light pictures or creative smear effects. In playback mode, strobe and solarization effects are possible. The audio improvements let you capture softer sounds if there is little ambient noise and attenuate loud sounds for more intelligible recordings.

Carried over from Canon's A1 Digital camcorder is the angled position of the recorder section with a second grip that lets users hold it as they would a 35mm film camera. Two zoom rockers permit more natural zoom operation, and most camera controls are touch coded. Such features as piezo autofocus, manual iris with an onscreen indicator, a white balance lock, seven shutter speeds to 1/10,000-second, hold-down fade, time/date/title imprinting and edit search are all preserved. In short, the L1 is an evolutionary step forward, packed with tested features that improve camcorder operation and capability.

Those who wish to fully tap the L1's potential will want to consider the camcorder's unique optional components. The 8x L1, priced at $400, is a compact alternative to the 15x lens, while the VL lens adapter, for $350, gives the L1 compatibility wit h the EF series of EOS lenses. A CL 2x lens extender, for $350, doubles the focal range of any lens in use, giving the camcorder extraordinary reach.

Canon's L1 Hi8 camcorder, the first consumer model to accommodate interchangeable lenses, marks a major breakthrough in camcorder design.

Description. The L1 looks somewhat like the A1 Digital but the battery is back in the hand grip and the lens projects further. The cassette hatch is at the left of the recorder section and opens rearward. One zoom rocker is on the camcorder grip. The other is under the right thumb when the L1 is held like a 35mm camera. The power and alternate run/stop buttons are near the right edge of the top panel, as are the eject lever, a headphone level control and buttons for counter reset, stop, pause/still, fast forward/search, play, rewind/search and tape return.

An LCD screen on the back of a turret provides counter, function and caution indications. At its top is an accessory shoe. Further forward is a second shoe for the stereo zoom supplied microphone. Also present are jacks for a stereo mic and mic power, concentric controls for record levels and a switch for a 20-decibel sound attenuator. On the left is a hinged electronic viewfinder with a large eyepiece that lets users see the screen from a short distance. The front of the EVF has a tally light and the sensor for the IR remote control.

The bottom has a switch for the tally light, a thoughtful addition. The grip on the right side has a run/stop button, a zoom rocker, a battery release and the battery in its recessed side. On the left side of the body are buttons for fade, auto/manual focus, one shot AF, the high-speed shutter, auto/manual exposure select, the lens release and a manual exposure/gain thumbwheel. On the surface above are buttons for title, date and digital effects on and off. On the side are the earphone jack, a switch for master auto/manual

camera mode, and buttons for record (edit) search, digital effects selection, auto/set white balance and average/peak metering, plus a compartment for audio/video jacks.

The digital effects are a close-up digital zoom, overlapping the final portion of a scene over the start of the next one, a freeze that lets users record a still image or images every 1/8 second, art freeze for adding a paint-like effect to stills, and a gain up that records frames at intervals between 1/8- and 1/30-second. The gain up option lets users operate at light levels as low as 0.5 lux, but motion appears jittery or smeary. At the front is the new VL lens mount.

The Canon L1 opens up a new era in consumer camcorders.

The lens is conventional-looking but large, with manual zoom and focus rings. The jacks compartment has an edit switch and jacks for S-video, video, mono and stereo audio, DC out for the RF adapter and LANC remote control. On the right side, another compartment has buttons for title/date, timer, Hi8, shift, line in/out and the clock battery.

The infrared remote control has a zoom rocker and buttons for date, title, art, strobe, clear, counter reset, tape return, display, rewind/search, play, fast forward/search, stop, frame advance, pause/still and record.

Operation. Using the camcorder in automatic mode is as simple as using a comfortable point-and-shoot model. The autofocus works relatively well, but can be fooled by certain types of subjects. The manual options are easy to access, but some experience is needed to get the best out of them. What you see in the EVF is what you get, plus color.

Time/date imprinting is easy. Superimposing a title of up to two lines of 16 characters each is no more difficult than cycling through the characters needed to compose it. The digital effects work as promised, but should be used judiciously. The same is true of manual gain control and the mic attenuator.

There is a lot to learn, but when you do the L1 opens a host of creative options. The manual is very helpful, and operational ease is very good, even though the L1 is heavier and bulkier than Canon's previous top models.

Conclusion. The Canon L1 opens up a new era in consumer camcorders orders. The recordable digital effects enlarge creative options, with the overlap feature filling a real need. Coupled with the useful features are very good to excellent picture quality and very good audio quality and ease of operation. Overall performance is very good to excellent. Its suggested price is $2,999 and we recommend it highly.

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MON-244-247, 05-91

PIONEER CLD-M90 DATA

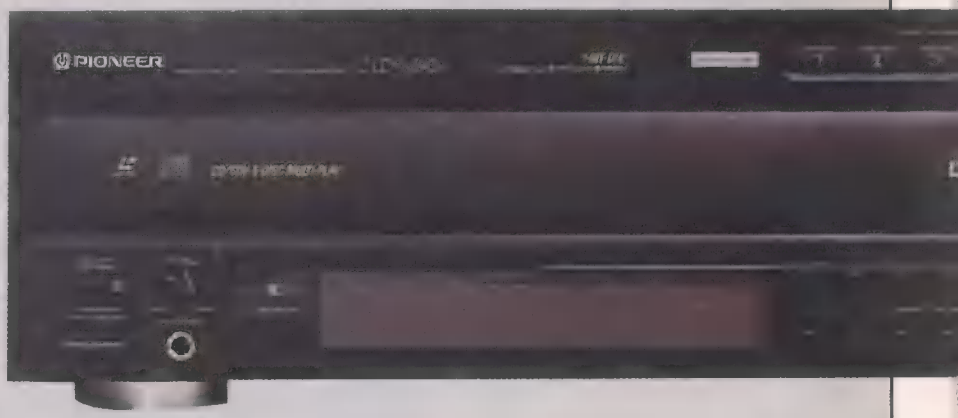
Price: $700
Weight & Size (h/w/d): 21 lbs; 5-5/8 x 16-5/8 x 17-1/2 inches
Disc Formats: LD, CD, CDV
Rapid Search: chapter/track; time on CDs, CDVs and CLV LDs; frame on CAV LDs
Cue & Review Search: max — 3 min. for CLV discs
Remote Pause: control in, control out and CD deck synchro
Remote Control: IR wireless with buttons for power, stop/eject, stereo/L/R, D/A/CX, still/step forward and reverse, scan forward and reverse, chapter/track skip forward and reverse, random, highlight/intro scan, disc numbers one to five, pause, play/search, 10-digit keypad, +10, clear, display, chapter/time, repeat and program
Program Start Locator/Index/Cue: disc, chapter/track, time/frame
Audio: hi-fi AFM stereo, digital stereo
Titles/Graphics: onscreen/display — function, disc, chapter/track, time, time remaining, total time, frame, digital sound, audio channel, CD/LV, repeat, chapter, side, play, random play and chapter/track calendar
Special Features: still frame (CAV only), frame advance, audio track selection, headphone jack, random play, highlight/intro scan, edit, auto program, compu program and LD play with CDs present
Absent Features: index search, side-changing, slow motion, speed play, digital picture effects and S-video output

RESULTS

Horizontal Resolution: 420 lines
S/N Ratios (dB): video — 49.1 unweighted, 56.8 weighted; chroma AM — 49.3; chroma PM — 39.2
Audio Frequency Response: LD digital — 10 Hz-20 kHz, +0.6/ 1.8 dB; LV analog — 20 Hz-20 kHz, 0/-1.8 dB; CD — 10 Hz-20 kHz, +0.2/-1.8 dB
Audio S/N: digital — more than 100 dB; analog — 76.3 dB
Audio Distortion: digital-.04%; analog-0.5%

RATINGS

Picture: very good/excellent
Audio: very good/excellent
Ease of Use: very good/excellent
Overall Performance: very good/excellent



Six-Ring Circus: Pioneer's CLD-M90 combi player plays up to five CDs from a rotating carousel. Laserdiscs may be played without removing the CDs.

VIDEOTEST 593

PIONEER

combi player

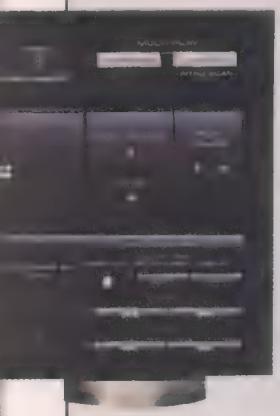
While its picture quality is outstanding for its price class, Pioneer's CLD-M90 combi player is most remarkable for an audio feature: a five-CD changer. The deck's ability to play a laserdisc while the CDs remain loaded will also please music lovers who like to keep favorite CDs loaded and ready to play. The deck provides very good to excellent audio quality, ease of operation and overall performance. However, it lacks features many videophiles demand, such as automatic side-changing, an S-video output and digital effects, which make it possible to view still frames, slow motion and clear search from CLV discs. We recommend it for those who want the CD-changing feature but do not use picture effects. Its $700 price is very reasonable.

The CLD-M90 combines two technologies that Pioneer pioneered: a combi player and a CD changer. While Sharp has offered a combi player with a three-CD changer for more than a year, Pioneer's is the first to accommodate five CDs, matching the capability of many dedicated CD changers. The CDs fit in depressions arranged around the laserdisc tray. A mechanical arm picks up the CDs and moves them to a central playing position. A laserdisc may be played while CDs are in the tray, but CDs cannot be played while a laserdisc is loaded.

A number of features enhance CD sound and operation. The deck uses the newer one-bit digital linear conversion system for more precise audio. Its random play feature works two ways. If selected from stop mode, it plays one random track from each disc in turn, continuing without repeats until all tracks on all discs are played. If selected while a disc is playing, it plays the tracks on that disc in random order.

Other CD features include auto program edit, which works with certain Pioneer audio cassette decks. The feature selects the tracks that will fit on a cassette and automatically records them. A special cable connects the CD deck synchro jack on the CLD-M90 with a similar one on the audio cassette deck. In compu program mode, the CLD-M90 scrambles the order of tracks to get the most onto one side of an audio cassette. Twenty-four CD tracks or laserdisc chapters may be programmed for playback.

Hi-lite/intro scan plays the first six or eight seconds of each laserdisc chapter, or six or eight seconds of a CD track beginning one minute into the track. The unit's automatic digital level control (ADLC) is a compressor rather than a limiter. It uses



different attack and release times so that it does not fight with volume controls and introduces little signal degradation.

The video features are limited — the only special effect is still frame and step with CAV discs. Slow motion and speed play are absent. Skip works on chapters or tracks for CDs, CD-Videos and laserdiscs, while scan works with all discs. Step, skip and scan are all bidirectional.

The CLD-M90 looks like Pioneer's other combi players — it's black, has a large front display, a ten-digit keypad and the usual open/close, play, skip and scan buttons. Noteworthy additions include selector buttons for CDs one to five, a pair of buttons random and hi-lite/intro scan, a tiny one for onscreen display on/off, and another pair for edit/compu program/auto program and ADLC.

The rear panel has two sets of video and stereo audio outputs; a group of video, DC and mono audio outputs for an optional RF adapter cable; a pair of mini jacks for control in and out, and a submini jack for CD deck synchronization. The remote control reprises the front controls, and adds buttons for stereo/left/right and digital/analog/CX audio.

The CLD-M90 works like most Pioneer combi players — even those who have never used a combi player should be able to learn basic operations after playing with it for a few minutes. The only new buttons are those, like the disc selectors, that control the CD changer. Videophiles might miss bidirectional, multispeed playback, which is available with most laserdisc players, as well as special effects for CLV discs.

All the common search functions by chapter/track, time and frame are here, plus a new one for CD disc. There is no index code search, but this feature is rarely used. The manual was not ready at the time of our test, but we were easily able to figure out most features. Users will probably need to read the manual to get the fine points of edit, random play and some of the more complex operations. Ease of operation is very good to excellent.

The deck's ability to play a laserdisc while the CDs remain loaded will also please music lovers who like to keep favorite CDs loaded and ready to play. The deck provides very good to excellent audio quality, ease of operation and overall performance.

The horizontal resolution is 420 to 425 lines with an unweighted video signal-to-noise ratio of 49.1 decibels. The weighted video S/N is 56.8 dB, chroma AM S/N is 49.3 dB and chroma PM S/N is 39.2 dB. Further examination of the chroma PM measurement reveals most of the noise is at lower frequencies, so it is not always disturbing. Resolution, video and chroma AM measurements are excellent, but the chroma PM measurement pulls picture quality down to very good to excellent.

Audio frequency response on laserdisc digital tracks is 10 hertz to 20 kilohertz, +0.6/-1.8 dB, and on laserdisc analog it is 20 Hz to 20 kHz, +0/-1.8 dB. For CDs it is 10 Hz to 20 kHz, +0.2/-1.8 dB. Audio S/N is more than 100 dB on digital material and 76.3 dB on analog material while the total harmonic distortion is 0.04 percent on digital tracks and 0.5 percent on analog track s. Audio quality is very good/excellent compared to other combi players.

PERSONAL (CONTINUED)

(4) SOUND DECISIONS
"Look into sound that suits your taste. Some may be satisfied with regular mono sound, but others will want Hi Fi stereo."

(5) TUNING IN
"Check to assure that the product has a TV tuner — if that's what you prefer. Some will only be capable of playing back a video tape.

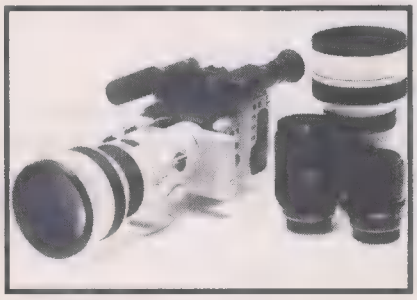
(6) IN AND OUT
"Audio/Video inputs and outputs will allow you to connect it to a TV or to a another deck for editing and dubbing."

(7) FULL EFFECTS
"Evaluate whether you need or want special effects such as still frame, slow motion, and check to make sure that the forward/reverse search doesn't have a lot of video noise."

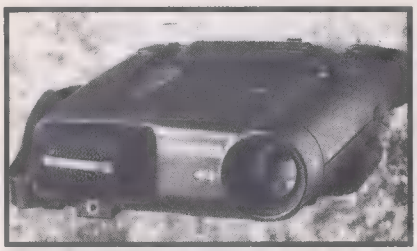
(8) SOFTWARE
"When you're buying a portable TV/VCR, you ought to make sure that you have access to pre-recorded software for that video format."

(9) PORTABLE ADVANTAGES
"Portable video products have the advantage of dual flexibility. They can be used as a second home VCR, or they can also be used by videographers as on-location monitors. or to make back-up tapes."

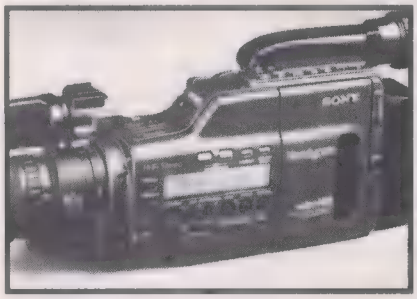
(10) BUYER BEWARE
"About half of the portable video products out on the market today are not equipped with tuners. And even less have cable-ready tuners, so don't assume that a particular model will have what you're looking for. Investigate carefully."



Canon L1



Fisher FVC-990



Hitachi VMC-2A

Hitachi VMS8200A

CANON L1

Hi-8 camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 15:1; Lens: f1.4; macro; 0.5 lux min. illumination; auto focus; freeze frame; frame advance; slow motion; forward/reverse scan; AFM Hi-Fi stereo sound with manual stereo recording adjustment; removable mic w/ switchable stereo and zoom modes; variable shutter speeds; flying erase head. Digital Features: digital strobe and art effects; zoom; titling. Features: timer function; time-lapse/interval recording; built-in titling and dating; dual action grips. Weight: 3.1 lbs.

CANON A1 DIGITAL

Hi-8 camcorder. Pickup type: 1/2 in. CCD. Zoom ratio: 10:1; Lens: f1.4; macro; 0.5 lux min. illumination; flying erase head; AFM HiFi stereo; fader; variable shutter speeds; Auto Tracking Focus; auto tracking backlight compensation; time lapse/interval recording; self-timer recording; built-in titler; manual control of stereo recording level. Digital Features: scene overlapping (dissolve); image freezing; art freezing; 6-speed strobe playback; close-up; slow shutter. Weight: 3.3 lbs.

CANON E08

8mm camcorder. Pickup type: 1/2 in. CCD. Zoom ratio: 8:1; macro; Lens: f2.0; 2 lux min. illumination; Auto Tracking Focus; auto white balance; AFM HiFi stereo; flying erase head; time-lapse/interval recording; variable high-speed shutter. Digital Features: digital superimposition.

FISHER FVC-990

8mm camcorder. Hi-Fi stereo audio recording; built-in left/right channel microphone; zoom; shutter; fade; title insert; scene search; shutter speed settings. Weight: 1.5 lbs without battery.

FUJI FUJIX-8 M890

8mm camcorder. Pick-up type: 1/2 in. CCD; Zoom ratio: 8:1; macro; Hi-Fi stereo recording; fade in/out; title memory; TTL auto focus; automatic backlight compensation; date and time recording; insert recording; automatic white balance; picture search; skip search.

GE CG683

VHS camcorder. Pick-up type: 1/2 in. CCD; Zoom ratio: 8:1; macro; 3 lux min.; variable shutter speeds; flying erase head; fader; titling; interval recording.

HITACHI VM-5400A

VHS camcorder. Zoom ratio: 100:1; 2 lux min.; flying erase head; variable shutter speed; built-in automatic head cleaner; twist and shoot; blank search; character generator; interval recording; VISS index search; A/V fade; electronic graphics titler; 2-hour battery; A/V input cable.

HITACHI VM-C2A

VHS-C camcorder. Pick-up type; 1/2 in. CCD. Zoom ratio: 6:1; Lens: f1.8; dual macro; 4 lux min. illumination; auto focus; auto white balance, iris; fader; edit search; flying erase head; computer-generated color graphics display titler; VISS; time-lapse recording; time remaining indicator; dual time clock; auto date; time stamp; "Twist & Shoot" model.

HITACHI VM-S8200A

SVHS camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 10:1; Lens: f1.4; dual macro; 3 lux min. illumination; auto focus; variable shutter speeds: 7-position; simultaneous automatic adjustment of iris and shutter speeds; cordless 10-watt video light; jog titler; index search; folding handle; negative/positive reversal; fader; monitor speaker; A/V dubbing; time-lapse/interval recording; edit search; edit switch; self timer; freeze frame; forward/reverse scan; slow motion; wind cut switch; mic mixing.

JVC GR-AX10U

VHS-C camcorder. Pick-up type: 1/3-in. CCD; Zoom ratio: 8:1; macro; 1 lux min.; flying erase head; fader; variable shutter speeds; interval recording with optional remote; titling.

JVC GR-SX90U
SVHS-C camcorder. Pick-up type: 1/2-in. CCD; Zoom ratio: 8:1; macro; 3 lux min. illumination; flying erase head; fader; interval recording.

MAGNAVOX CVM320
VHS camcorder. Pick-up type: 1/3 in. CCD; Zoom ratio: 8:1; macro; Lens: f1.4; 2 lux min.; flying erase head; variable speed shutter; digital auto focus with manual; integrated DC video light; fade in/out; time lapse recording; auto index search; A/V input/output.

MINOLTA 8-308
8mm camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 8:1; Lens: f1.4; macro; 2 lux min. illumination; variable shutter speeds; 2-page character generator; dual mode self-timer; audio/video fader; time lapse/interval recording; time remaining indicator; flying erase head; wind noise filter.

MINOLTA 8-808
Hi-8 camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 8:1; Lens: f1.4; macro; 3 lux min. illumination; flying erase head; fader; time lapse/interval recording; wind noise filter; built-in clock calendar.

NIKON VN-500
8mm camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 8:1; Lens: f1.6; macro; 4 lux min. illumination; flying erase head; variable shutter speeds; date/time stamp; titler.

NIKON VN-860
8mm camcorder. Zoom ratio: 8:1; Lens: f1.6; macro; 2 lux min.; variable speed shutter; flying erase head; fader; built-in microphone with wind shield; wireless remote control. Weight: 2 lb. 3 oz. Dim: 4 3/8 x 5 1/2 x 12 3/4.

OLYMPUS VX-H804
Hi-8 camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 8:1; Lens: f1.2; macro; 7 lux min. illumination; auto focus; fader; electronic viewfinder; variable shutter speeds: 6-position; frame advance; freeze frame; slow motion; flying erase head; video dubbing; PCM digital stereo. Features: mic sensitivity selector; auto white balance; LCD panel; auto date/time stamp. Weight: 3 lbs.

OPTONICA VL-L8100U
VHS camcorder. Zoom ratio: 16:1; flying erase head; auto iris; fader; self timer recording; insert editing; auto dubbing; auto date/time stamp; variable shutter speeds; 1-inch LCD color viewfinder.

PANASONIC PV-S160
SVHS-C camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 6:1; Lens: f/1.2; macro; 7 lux min. illumination; auto focus; instant replay; fader; electronic viewfinder; time-lapse recording; variable shutter speeds: 4; forward/reverse scan; flying erase head; audio dubbing; video dubbing; Hi-Fi stereo recording. Features: zero-frame editing; edit switch; S-video jack; auto white balance, iris; VHS Index Search System; auto date/time; self-timer recording.

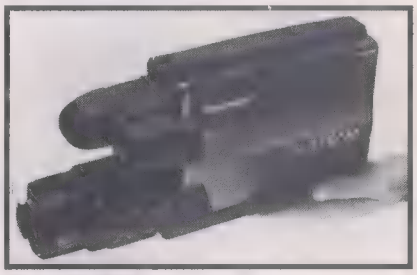
PANASONIC PV-S770
SVHS camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 12:1; flying erase head; macro; auto iris; auto white balance; auto date/time stamp; self-timer recording; time lapse/interval recording; fader; built-in 10w color enhancement light; audio/video dubbing; edit search; variable shutter speeds; left- and right-handed operation. Digital Features: digital electronic image stabilization; zoom; still; strobe effects; mirror effect; auto tracking. Weight: 4.4 lbs.

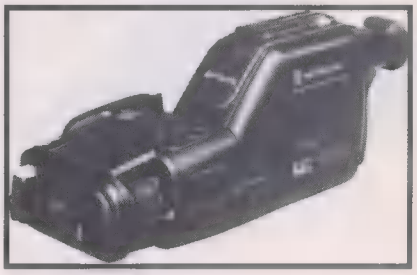
PANASONIC PV-720
VHS camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 12:1; 4 lux min. illumination; macro; flying erase head; auto iris; auto white balance; fader; auto date/time stamp; self timer; time lapse/interval recording; variable shutter speeds; record/review instant replay; synchro edit; edit search; mic wind buffer switch; digital auto tracking; right- and left-handed operation.

Magnavox CVM320

Olympus VX-H804

Sanyo VMES77


Sharp VL-L50U


Sony CCD-V801

SVHS & SVHS-C

BRAND	MODEL	PRICE	FORMAT	ZOOM	PICK-UP TYPE	LUX	FLYHD.	MACRO	FADER	TLIR
HITACHI	VM-S8200A	$1699.95	SVHS	10:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes
JVC	GR-S505U	$1599	SVHS-C	8:1	1/2 in. CCD	5	Yes	Yes	Yes	No
	GR-SX90U	$1600	SVHS-C	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes
	GR-S707U	$2499	SVHS-C	8:1	1/2 in. CCD	8	Yes	Yes	Yes	No
PANASONIC	PV-S770	$1599	SVHS	12:1	1/2 in. CCD	5	Yes	Yes	Yes	Yes
RCA	CC560	$1649	SVHS	10:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes

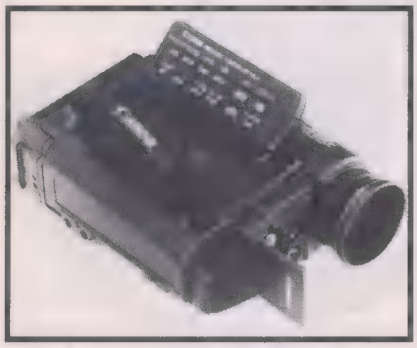
*LEGEND — FLYHD: flying erase head; TLIR: time-lapse/interval recording. *NOTE: All information and suggested retail prices are provided by manufacturers.*

VHS-C

BRAND	MODEL	PRICE	ZOOM	PICK-UP TYPE	LUX	FLYHD	MACRO	FADER	TLIR	VSS	TITLING
HITACHI	VM-C2A	$1049.95	6:1	1/2 in. CCD	4	Yes	Yes	Yes	Yes	Yes	Yes
JVC	GR-303U	$1199.95	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	Yes
	GR-AX2U	$999.95	6:1	1/3 in. CCD	1	Yes	Yes	Yes	No	Yes	No
	GR-AX5U	$1099.95	8:1	1/3 in. CCD	1	Yes	Yes	Yes	No	Yes	No
	GR-AX10U	$1199.95	8:1	1/3 in. CCD	1	Yes	Yes	Yes	No	Yes	Yes
MAGNAVOX	CVM610	$1099.95	6:1	1/3 in. CCD	2	Yes	Yes	Yes	No	Yes	No
	CVM620	$1299.95	6:1	1/3 in. CCD	4	Yes	Yes	Yes	No	Yes	No
MINOLTA	C-516	NA	6:1	1/3 in. CCD	1	Yes	Yes	Yes	No	Yes	No
PANASONIC	PV-10B	$899	6:1	1/3 in. CCD	3	Yes	No	Yes	No	Yes	No
	PV-19	$949	8:1	1/3 in. CCD	4	Yes	Yes	Yes	No	Yes	No
	PV-21	$999	8:1	1/3 in. CCD	4	Yes	Yes	Yes	No	Yes	No
	PV-41	$1499`	12:1	1/3 in. CCD	5	Yes	Yes	Yes	No	Yes	Yes
QUASAR	VM510	$999.95	6:1	1/3 in. CCD	2	Yes	Yes	Yes.	No	Yes	No
	VM511	$999.95	6:1	1/3 in. CCD	2	Yes	Yes	Yes	No	Yes	No
	VM515	$1049.95	8:1	1/3 in. CCD	4	Yes	Yes	No	No	Yes	No
	VM518	$1499.95	8:1	1/3 in. CCD	3	Yes	Yes	Yes	No	Yes	Yes
RCA	CC180	NA	8:1	1/3 in. CCD	1	Yes	Yes	Yes	No	Yes	Yes
ZENITH	VM6700C	$1199	6:1	1/3 in. CCD	1	Yes	Yes	Yes	No	Yes	No
	VM6800C	$1299	8:1	1/3 in. CCD	1	Yes	Yes	Yes	No	Yes	No

*LEGEND — FLYHD: flying erase head; TLIR: time-lapse/interval recording; VSS: variable shutter speeds; TITLING: includes character generator and digital superimposition capabilities. *NOTE: All information and suggested retail prices are provided by manufacturers.*

NEW AND NOTEWORTHY



Canon's new UCS1 Hi-8 camcorder.

CANON UCS1 .....$2099
Hi8 camcorder. Pick-up type: 1/3 in. CCD; Zoom ratio: 10:1; Lens: 1:1.8; 5 lux min.illumination; variable shutter speeds; flying erase head; Hi-Fi stereo with AFM stereo sound; digital titler; built-in character generator; full auto mode; detachable wireless remote control panel; menu system; white fade; built-in stereo zoom microphone; blank tape and record search; electronic viewfinder displays; edit mode; AA battery compatible.

CANON UC1 .....$1499
8mm camcorder. Pick-up type: 1/3 inch CCD; Zoom ratio: 8:1; Lens: f/1.8; 2 lux min. illumination; variable shutter speeds; flying erase head; up to 2 hours of continuous recording; detachable wireless remote control panel; menu system; electronic viewfinder displays; edit mode; digital titler; white fade; blank tape and record search; fully automatic operation; auto wind screen; AA battery compatible. Weight: 1.28 pounds

VHS

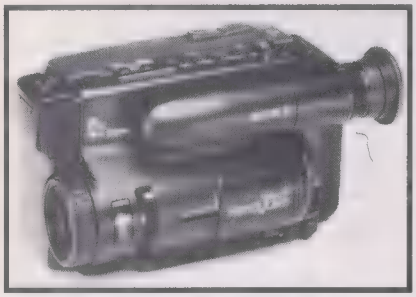
BRAND	MODEL	PRICE	ZOOM	PICK-UP TYPE	LUX	FLYHD	MACRO	FADER	TLIR	VSS	TITLING
GE	CG671	NA	8:1	1/3 in. CCD	2	No	Yes	Yes	Yes	Yes	No
	CG681	NA	8:1	1/3 in. CCD	2	Yes	Yes	Yes	Yes	Yes	No
	CG701	NA	12:1	1/3 in. CCD	4	Yes	Yes	Yes	Yes	Yes	No
	CG683	NA	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	No
GOLDSTAR	GS-V31M	$1099.95	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	No	Yes
HITACHI	VM-2400A	$949.95	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	Yes
	VM-4400A	$1099.95	64:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	VM-5400A	$1399.95	100:1	1/2 in. CCD	2	Yes	No	Yes	Yes	Yes	Yes
MAGNAVOX	CVL310	$1099.95	8:1	1/2 in. CCD	2	No	Yes	No	No	Yes	No
	CVL300	$1199.95	6:1	1/2 in. CCD	2	No	Yes	No	No	Yes	No
	CVL318	$1299.95	8:1	1/2 in. CCD	2	No	No	Yes	Yes	Yes	No
	CVL325	$1499.95	8:1	1/2 in. CCD	2	Yes	Yes	No	No	Yes	No
	CVM310	NA	8:1	1/3 in. CCD	3	No	Yes	Yes	Yes	Yes	No
	CVM320	NA	8:1	1/3 in. CCD	2	Yes	Yes	Yes	Yes	Yes	No
	CVM330	NA	12:1	1/3 in. CCD	4	Yes	Yes	Yes	Yes	Yes	No
	CVL335	$1649.95	12:1	1/2 in. CCD	5	Yes	Yes	No	No	Yes	No
	CVL345	$1799.95	8:1	1/2 in. CCD	3	Yes	Yes	No	No	Yes	No
	CVL320	$1399.95	8:1	1/2 in. CCD	2	Yes	Yes	No	No	Yes	No
MINOLTA	V-20R	NA	10:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	V-118	NA	8:1	1/3 in. CCD	2	Yes	No	Yes	Yes	Yes	Yes
OPTONICA	VL-L8100U	$1399	16:1	1/2 in. CCD	3	Yes	No	Yes	No	Yes	No
PANASONIC	PV-700	$899	8:1	1/2 in. CCD	2	No	Yes	Yes	Yes	Yes	No
	PV-704	$999	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	No
	PV-710	$999	12:1	1/2 in. CCD	4	No	Yes	Yes	Yes	Yes	No
	PV-720	$1149	12:1	1/2 in. CCD	4	Yes	Yes	Yes	Yes	Yes	No
	PV-750	$1299	8:1	1/2 in. CCD	4	Yes	Yes	Yes	Yes	Yes	No
	PV-760	$1399	12:1	1/2 in. CCD	4	Yes	Yes	Yes	Yes	Yes	No
QUASAR	VM710	$1169.95	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	No
	VM712	$1269.95	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	No
	VM714	$1299.95	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	No
	VM715	$1359.95	8:1	1/2 in. CCD	4	Yes	Yes	Yes	Yes	Yes	No
	VM718	$1499.95	12:1	1/2 in. CCD	5	Yes	Yes	Yes	Yes	Yes	No
	VM709	$1969.95	12:1	1/2 in. CCD	1	Yes	Yes	Yes	Yes	Yes	No
RCA	CC391	$949	6:1	1/2 in. CCD	2	No	Yes	Yes	Yes	Yes	Yes
	CC406	$1049	8:1	1/2 in. CCD	2	No	Yes	Yes	Yes	Yes	Yes
	CC445	$1049	8:1	1/3 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	CC512	$1149	12:1	1/3 in. CCD	3	Yes	Yes	Yes	Yes	Yes	Yes
	CC525	$1399	12:1	1/3 in. CCD	3	Yes	Yes	Yes	Yes	Yes	Yes
REALISTIC	Model 102	$899	8:1	1/2 in. CCD	2	No	Yes	Yes	Yes	Yes	Yes
	Model 103	$799	8:1	1/3 in. CCD	2	Yes	No	Yes	No	Yes	No
	Model 127	$999	12:1	1/3 in. CCD	3	Yes	No	No	Yes	Yes	No
	Model 126	$999	12:1	1/2 in. CCD	NA	Yes	No	Yes	No	No	No

*LEGEND — FLYHD: flying erase head; TLIR: time-lapse/interval recording; VSS: variable shutter speeds; TITLING: includes character generator and digital superimposition capabilities. *NOTE: All information and suggested retail prices are provided by manufacturers.*

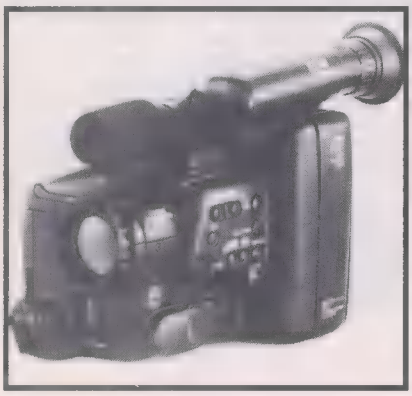
VHS (continued)

BRAND	MODEL	PRICE	ZOOM	PICK-UP TYPE	LUX	FLYHD	MACRO	FADER	TLIR	VSS	TITLING
SAMSUNG	SCF-700	$1300	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	No
	SCX800	$1350	8:1	1/2 in. CCD	3	Yes	Yes	Yes	No	Yes	Yes
	SCF702	$1000	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	No
	SC-F710	$1400	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	No
SHARP	VL-L210U	NA	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	No
	VL-L330U	$1249.95	12:1	1/2 in. CCD	1	Yes	Yes	Yes	Yes	Yes	No
	VL-L310U	$1249.95	12:1	1/2 in. CCD	2	Yes	No	Yes	Yes	Yes	No
	VL-L4100U	$1249.95	12:1	1/2 in. CCD	1	Yes	Yes	Yes	Yes	Yes	No
	VL-L4300U	$1749.95	12:1	1/2 in. CCD	1	Yes	Yes	Yes	Yes	Yes	No
	VL-L10U	NA	8:1	1/2 in. CCD	1	Yes	No	No	No	Yes	No
	VL-L30U	$1149.95	8:1	1/2 in. CCD	2	Yes	No	No	No	Yes	No
	VL-L50U	$1249	12:1	1/2 in. CCD	1	Yes	No	Yes	No	Yes	No
	VL-L510U	$1749.95	16:1	1/2 in. CCD	3	Yes	Yes	No	Yes	Yes	No
SYLVANIA	VMC226	$1299.95	8:1	1/3 in. CCD	2	Yes	Yes	Yes	Yes	Yes	No
TEKNIKA	C8100	NA	6:1	1/2 in. CCD	7	No	Yes	No	No	Yes	No
ZENITH	VM7060	$1199	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	VM7070	$1159	8:1	1/2 in. CCd	2	Yes	Yes	Yes	Yes	Yes	Yes
	VM7170	$1399	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes

*LEGEND — FLYHD: flying erase head; TLIR: time-lapse/interval recording; VSS: variable shutter speeds; TITLING: includes character generator and digital superimposition capabilities. *NOTE: All information and suggested retail prices are provided by manufacturers.*



Sony CCD-TR7



Canon E08

PENTAX PV-EM100A

8mm camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 6:1; Lens: f2.0; macro; 4 lux min. illumination; flying erase head; variable shutter speeds; fader; time-lapse/interval recording; digital superimposition.

QUASAR VM518

VHS-C camcorder. Pick-up type: 1/3 in. CCD. Zoom ratio: 8:1; macro; 3 lux min. illumination; flying erase head; variable shutter speeds.

QUASAR VM709

VHS camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 12:1; Lens: f1.6; macro; 1 lux min. illumination; auto focus; stabilizing; instant replay; fader; electronic viewfinder; time-lapse/interval recording; variable shutter speeds: 6-position; forward/reverse scan; flying erase head; audio dubbing; video dubbing; gain-up, zoom, strobe, fade, mirror effect, still; built-in speaker; 10w color enhancement light; wind noise cut switch; synchro edit.

RCA CC525

VHS camcorder. Pick-up type: 1/3 inch CCD: Zoom ratio: 12:1; macro; 3 lux min.; variable shutter speeds; flying erase head; fader; time lapse recording; titling.

RCA CC560

SVHS camcorder. Pick-up type: 1/2 in. CCD; Zoom ratio: 10:1; macro; 3 lux min. illumination; auto focus; electronic viewfinder; variable shutter speed; freeze

Hi-8

BRAND	MODEL	PRICE	ZOOM	PICK-UP TYPE	LUX	FLYHD	MACRO	FADER	TLIR	VSS	TITLING
CANON	A1 Digital	$2499	10:1	1/2 in. CCD	0.5	Yes	Yes	Yes	Yes	Yes	Yes
	H800	$1749	8:1	1/2 in. CCD	5	Yes	Yes	Yes	Yes	Yes	Yes
	H850	$1899	8:1	1/2 in. CCD	5	Yes	Yes	Yes	Yes	Yes	Yes
	L1	$2999	15:1	1/2 in. CCD	0.5	Yes	Yes	Yes	Yes	Yes	Yes
FUJI	H80	$1600	8:1	NA	NA	No	Yes	Yes	No	Yes	Yes
HITACHI	VM-H18A	$1699	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	Yes
MINOLTA	8-808	NA	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	No	No
NIKON	VN-700	NA	8:1	NA	2	Yes	Yes	Yes	No	Yes	Yes
	VN-960	$1800	8:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	Yes
OLYMPUS	VX-H804	$1999	8:1	1/2 in. CCD	7	Yes	Yes	Yes	No	Yes	No
RCA	Pro880HB	$1749	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
RICOH	R-108H	$1999	10:1	1/2 in. CCD	4	Yes	Yes	Yes	No	Yes	Yes
SONY	CCD-V701	$1600	8:1	1/2 in. CCD	3	Yes	Yes	Yes	No	Yes	Yes
	CCD-V801	$1900	10:1	1/2 in. CCD	4	Yes	Yes	Yes	No	Yes	Yes
	CCD-V5000	$2700	8:1	2/3 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	CCD-TR81	$1500	8:1	NA	2	Yes	Yes	Yes	No	Yes	Yes
YASHICA	KD-H170	NA	10:1	1/2 in. CCD	4	No	Yes	No	No	Yes	No
	KD-H150	$1795	8:1	1/2 in. CCD	3	Yes	Yes	No	Yes	No	Yes

*LEGEND — FLYHD: flying erase head; TLIR: time-lapse/interval recording; VSS: variable shutter speeds; TITLING: includes character generator and digital superimposition capabilities. *NOTE: All information and suggested retail prices are provided by manufacturers.*

BUYER'S GUIDE VIDEO BEST

frame; flying erase head; fader; audio dubbing; video dubbing; built-in speaker; interval recording. Features: 10w color enhancement light; synchro edit; 40-page, 8-color titler.

RICOH R-830

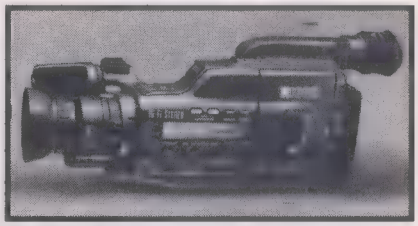
8mm camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 8:1; Lens: f1.6; macro; 2 lux min. illumination; flying erase head; auto focus; fader; electronic viewfinder; variable shutter speeds: 6-position; frame advance; freeze frame; slow motion; forward/reverse scan. Digital Features: digital titling. Features: 18-function wireless remote; date/time stamp; auto backlight and white balance. Weight: 2 lbs.

RICOH R-108H

Hi-8 stereo camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 10:1; Lens: f1.8; macro; 4 lux min.; varibale speed zoom control; 2 page digital title superimposer; selectable shutter speeds; fade; freeze frame; slow motion; frame by frame; flying erase head; index search and scan; insert editing.

SAMSUNG SC-F710

VHS camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 8:1; Lens: f1.4; macro; 3 lux min. illumination; auto focus; instant replay; fader; 2/3-inch EVF w/adjustable diopter; time lapse/interval recording; 5-position; flying erase head; audio dubbing; video dubbing; built-in speaker; 2-speed zoom; automatic iris; fader; synchro edit; index search.



Ricoh R-108H

Quasar VM518

8MM

BRAND	MODEL	PRICE	ZOOM	PICK-UP TYPE	LUX	FLYHD	MACRO	FADER	TLIR	VSS	TITLING
CANON	E06	$1549	6:1	1/2 in. CCD	4	Yes	Yes	Yes	Yes	Yes	Yes
	E08	$1549	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	E51	$1199	8:1	1/2 in. CCD	7	Yes	Yes	Yes	Yes	No	Yes
	E40	$1249	8:1	1/3 in. CCD	2	Yes	Yes	Yes	Yes	No	Yes
	E57	$1299	10:1	1/2 in. CCD	5	Yes	Yes	Yes	Yes	Yes	Yes
	E61	$1299	8:1	1/3 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	E65	$1499	10:1	1/3 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
CHINON	C8-SC96	$1195	6:1	1/3 in. CCD	2	Yes	Yes	Yes	No	Yes	No
	C8-SC98	$1395	8:1	1/3 in. CCD	4	Yes	Yes	Yes	No	Yes	No
FISHER	FVC-720	$799.95	8:1	1/2 in. CCD	3	Yes	Yes	No	No	No	No
	FVC-770	$899.95	8:1	1/3 in. CCD	5	Yes	Yes	No	No	Yes	Yes
	FVC-990	$1199.95	8:1	1/3 in. CCD	4	No	No	Yes	No	Yes	Yes
FUJI	Fujix-8 F60Wide	$1250	6:1	1/2 in. CCD	NA	Yes	No	No	Yes	No	No
	Fujix-8 M890	$1500	8:1	1/2 in. CCD	NA	No	Yes	Yes	Yes	No	No
GE	CG800	$899	6:1	1/3 in. CCD	2	Yes	Yes	Yes	No	Yes	No
	CG805	$999	8:1	1/3 in. CCD	4	Yes	Yes	Yes	No	Yes	No
HITACHI	VM-E10A	$999.95	6:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	Yes
	VM-E15A	$1099	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
MAGNAVOX	CVM710	$1149.95	6:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	No
	CVM720	$1349.95	8:1	1/2 in. CCD	4	Yes	Yes	Yes	No	Yes	No
MINOLTA	8-308	NA	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	8-406	NA	6:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	Yes
NIKON	VN-300	$1100	10:1	1/3 in. CCD	5	Yes	Yes	No	Yes	Yes	Yes
	VN-310	NA	6:1	NA	3	Yes	Yes	Yes	Yes	Yes	Yes
	VN-860	NA	8:1	NA	2	Yes	Yes	Yes	No	Yes	No
	VN-500	$1400	8:1	1/2 in. CCD	4	Yes	Yes	No	Yes	Yes	Yes
	VN-950	$2200	8:1	1/2 in. CCD	4	No	Yes	No	No	No	No
OLYMPUS	VX-81	$1999	6:1	1/2 in. CCD	7	Yes	Yes	Yes	No	No	No
	VX-82	$1899	8:1	1/2 in. CCD	4	No	Yes	Yes	No	Yes	Yes
	VX-806	$799	8:1	1/2 in. CCD	3	Yes	Yes	No	No	No	No
PENTAX	PV-EM100A	$1199	6:1	1/2 in. CCD	4	Yes	Yes	Yes	Yes	Yes	Yes
	PV-C909A	$1299	6:1	1/2 in. CCD	3	Yes	Yes	Yes	Yes	Yes	Yes
RCA	Pro815	$1099	8:1	1/2 in. CCD	2	Yes	Yes	No	No	Yes	No
	Pro820A	$1199	8:1	1/2 in. CCD	2	Yes	Yes	Yes	Yes	Yes	Yes
	PRO825	$1249	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	Yes
	PRO860	$1099	8:1	1/3 in. CCD	3	Yes	Yes	Yes	No	Yes	Yes
	Pro865	$1199	8:1	1/3 in. CCD	3	Yes	Yes	Yes	No	Yes	Yes
REALISTIC	Model 153	$899	8:1	1/2 in. CCD	3	No	Yes	No	No	No	Yes
	Model 152	$899	8:1	1/2 in. CCD	3	Yes	Yes	No	No	No	Yes
RICOH	R-66	$1099	6:1	1/3 in. CCD	5	Yes	Yes	No	No	Yes	Yes
	R-86	$1599	8:1	1/2 in. CCD	4	Yes	Yes	Yes	No	Yes	Yes
	R-105	$1699	10:1	1/2 in. CCD	2	No	Yes	Yes	No	Yes	Yes
	R-831	$1299	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	No
	R-861	$1499	8:1	1/2 in. CCD	2	No	Yes	No	No	Yes	Yes
	R-830	$1249	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	Yes
	R-860	$1549	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	Yes
SANYO	VMES77	$899.99	8:1	1/3 in. CCD	4	Yes	Yes	No	No	Yes	Yes
	VMD6	$799.99	8:1	1/2 in. CCD	3	Yes	No	No	No	No	No

8MM (continued)

BRAND	MODEL	PRICE	ZOOM	PICK-UP TYPE	LUX	FLYHD	MACRO	FADER	TLIR	VSS	TITLING
SONY	CCD-SP9	$1400	6:1	1/2 in. CCD	3	Yes	No	No	No	No	Yes
	CCD-TR4	$1100	6:1	1/3 in. CCD	5	Yes	No	No	No	No	Yes
	CCD-TR6	$1200	8:1	1/3 in. CCD	4	Yes	No	Yes	No	No	No
	CCD-TR7	$1400	8:1	1/2 in. CCD	4	Yes	No	No	No	No	Yes
	CCD-F201	$1000	8:1	1/2 in. CCD	3	Yes	Yes	No	No	Yes	No
	CCD-F301	$1100	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	No
	CCD-F401	$1200	8:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	Yes
	CCD-F501	$1400	10:1	1/2 in. CCD	2	Yes	Yes	Yes	No	Yes	Yes
SUNPAK	SV-11	NA	8:1	1/3 in. CCD	4	Yes	Yes	Yes	No	Yes	No
	SV9	$1250	8:1	NA	NA	Yes	Yes	No	Yes	No	Yes
SYLVANIA	VMC260	$1149.95	6:1	1/3 in. CCD	2	Yes	Yes	Yes	No	Yes	No
YASHICA	KD-1700U	$1695	6:1	1/2 in. CCD	9	Yes	No	No	No	No	Yes
	KD-M770	NA	10:1	NA	2	No	Yes	Yes	No	Yes	No
	KX-70	NA	6:1	1/3 in. CCD	5	No	Yes	No	No	Yes	Yes
	KX-90	NA	8:1	1/2 in. CCD	4	No	Yes	Yes	No	Yes	Yes
	KX-1	NA	6:1	1/2 in. CCD	4	No	Yes	Yes	No	Yes	Yes
ZENITH	VM8000	$1295	8:1	1/2 in. CCD	3	Yes	Yes	No	No	No	No
	VM8300	$1295	8:1	1/3 in. CCD	4	Yes	Yes	Yes	Yes	No	Yes

*LEGEND — FLYHD: flying erase head; TLIR: time-lapse/interval recording; VSS: variable shutter speeds; TITLING: includes character generator and digital superimposition capabilities. *NOTE: All information and suggested retail prices are provided by manufacturers.*

BUYER'S GUIDE VIDEO BEST

SONY CCD-V801

Hi-8 camcorder. Pick-up type: 1/2 in. CCD; zoom ratio: 10:1; flying erase head; RC time code; automatic data code recording; 4-mode program AE; on-screen menu; 27-speed shutter; AFM stereo Hi Fi sound; 2-page digital superimposer; edit search; index search/scan.

SONY CCD-TR81

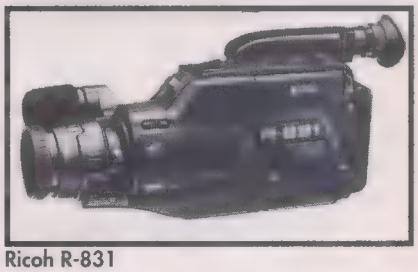
Hi8 camcorder. Pick-up type: 410,000 pixel CCD; Zoom ratio: 8:1; macro; 2 lux min.AFM HI-Fi stereo; flying erase head; variable high-speed shutter; wireless remote control; audio/video fader; digital superimposer; edit search.

SONY CCD-V5000

Hi-8 camcorder. Pick-up type: 2/3 in. CCD. Zoom ratio: 8:1; macro; 2 lux min. illumination; electronic viewfinder; variable shutter speeds: 6-position; fader; flying erase head; audio dubbing. Digital Features: 2-page digital superimposition; digital zoom; PCM digital stereo. Features: time-lapse/interval recording; digital noise reduction. Weight: 7 lbs.

ZENITH VM7170

VHS camcorder. Pick-up type: 1/2 in. CCD. Zoom ratio: 8:1; Lens: f1.4; macro; 2 lux min. illumination; auto focus; instant replay; fader; EVF w/adjustable diopter; time lapse/interval recording; flying erase head; variable shutter speeds; audio dubbing; background music terminal; built-in speaker. Features: dual battery pack; zero frame editing; self timer recording. Weight: 6 lbs.

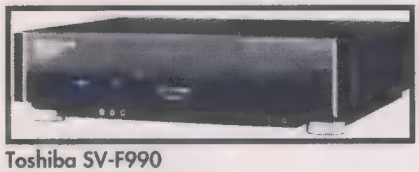


Ricoh R-831

Panasonic PV-S770

Fisher FVH-Z1

Hitachi VTF551



Toshiba SV-F990

B & O VX 5000

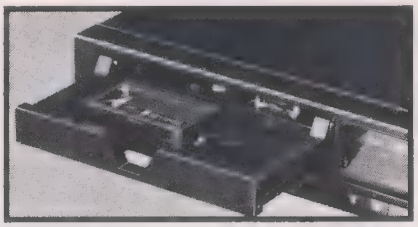
SVHS VCR. 183 channels; 365-day/8-event programmability; stereo; MTS; PIP; strobe. Features: audio only recording; remote tracking.

FISHER FVH-Z1

SVHS VCR. 4 video heads; 365-day/6-event programmability; Hi-Fi; on-screen programming; one-touch record; frame advance; freeze frame; forward/reverse scan; slow motion. Editing Features: audio dubbing; index search.

GE VG 4018

VHS VCR. 4 video heads; 1-year/8-event programmability; forward/reverse scan; slow motion; freeze frame; frame advance; on-screen programmability with VCR+ programming; one-touch record; auto programming tuner.



JVC HR-SC1000U

GE VG4018

GOLDSTAR GHV-9000M

VHS Hi-Fi VCR. 4 video heads; 181 channels; 365-day/8-event programmability; on-screen programming; MTS; audio dubbing; frame advance; freeze frame; slow motion; forward/reverse scan; auto power on; auto play. Editing Features: video dubbing. Features: front panel A/V inputs; dbx noise reduction; LED meters; built-in character titler; blue screen noise elimination.

GO-VIDEO GV2010

Dual-Deck VHS VCR. 16-event programmable timer; 155 channels; MTS; on-screen programming; full-function remote control; 2 tape duplication modes; on-screen display; automatic rewind, play, and power on/off; one-touch recording; edit button; 2-speed picture scan.

HITACHI VT-F551A

VHS Hi-Fi VCR. 4 video heads; 181 channels; 365-day/8-event programmability; titler; universal remote with jog/shuttle control; S-VHS compatible; Movie Return Tape switch; flying erase head; VISS; A/V dubbing.

HITACHI VT-S730A

SVHS VCR. 5 video heads; 181 channels; 365-day/8-event programmability; one touch record; Hi-Fi; MTS; audio dubbing; frame advance; freeze frame; forward/reverse scan; auto power on; auto play; auto

Instant Replay 610 IT6 50/60 Standards Converter VCR

eject; auto off. Editing Features: jog/shuttle dial; video dubbing; flying erase head; index search (VISS). Features: Video Brain unified remote; assemble editing; synchro edit; headphone jack w/volume control; digital auto tracking; 2-speed forward/reverse scan; A/V input selector; 30-minute memory backup; 10-segment LED level indicators; mic input; date/time stamp.

INSTANT REPLAY 77IT6 50/60

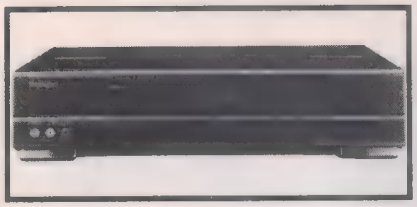
Super VHS Hi-Fi VCR. 4 video heads; 155 channels; 31-day/4-event timer; noiseless field still; variable slow motion; on-screen and bar code programming; MTS; horizontal resolution: VHS mode- more than 230 lines, S-VHS mode- more than 400 lines; built-in standards converter; plays PAL or SECAM; tapes on all American (NTSC) TVs or monitors; converted signal is recordable; owners of earlier IMAGE TRANSLATOR VCRs can have their units retro-fitted with the 50/60 module to allow complete compatibility with all TVs, monitors, and projection systems and for standards conversion purposes; includes 47 function, wireless remote control; on-screen display; one-touch record.

JVC HR-D970U

VHS Hi-Fi VCR. 4 video heads; 181 channels; 30-day/8-event programmability; on-screen programming; MTS; audio dubbing. Editing Features: jog/shuttle dial; video dubbing; flying erase head; index search (VISS). Features: dual-screen programming; one-touch record; blank tape/real-time search; insert/synchro editing; digital tracking; retake function.

JVC HR-SC1000U

SVHS VCR. 4 video heads; 181 channels; 28-day/8-event programmability; freeze frame; slow motion; forward/reverse scan;


Sharp VC-H85U

auto power on; auto play; auto eject; auto off. Editing Features: audio dubbing; flying erase head; jog/shuttle dial; video dubbing; index search (VISS). Features: SVHS/SVHS-C compatible VCR; synchro editing; on-screen menus.

MAGNAVOX VR9045AT

VHS VCR. 4 video heads; 365-day/8-event programmability; variable slow motion; freeze frame; forward/reverse scan; on-screen menu control; go-to function; VHS Index Search System.

MITSUBISHI HS-U82

SVHS VCR. 4 video heads; 181 channels; 28-day/8-event programmability; Hi-Fi; MTS; on-screen programming; one-touch record; audio dubbing; frame advance; freeze frame; slow motion; forward/reverse scan. Editing Features: audio dubbing; flying erase head; jog/shuttle dial; VHS Index Search System; video dubbing. Features: CCD drop out noise reduction; pre-roll w/edit controller; digital auto tracking; antenna A/B; recording level meters/controls; elapsed/remaining time counter; auto index; 19-position index search; dubbing video output; headphone output w/level control.

PANASONIC PV-7000

VHS/VHS-C VCR. 30-day/8-event programmability; playback and recording of VHS and compact VHS tapes; on-screen programming; one-touch record; VHS Index Search; Time Search; Memory Rewind Off; TV Monitor function allows tape pause to automatically switch to TV.

PANASONIC PV-S4990

SVHS VCR. 4 video heads; 155 channels; 30-day/8-event programmability; bar-code programming; one touch record; on-screen programming; 63 function, wireless remote control; Hi-Fi; MTS; audio dubbing; frame advance; freeze frame; slow motion; forward/reverse scan; auto power on; auto play; auto eject; auto off. Digital Features: digital zoom; PIP; strobe; TV still. Editing Features: audio dubbing; jog/shuttle dial; video dubbing; flying erase head; index search (VISS). Features: synchro edit; bar code titling; variable audio output; auto tracking; learning remote; Auto Set automatic channel tuning; dual RF inputs; built-in Time Base Corrector; real-time counter; 10-minute memory backup.

RCA VR696

Magnavox VR9045

Zenith VRJ420HF

RCA VR696

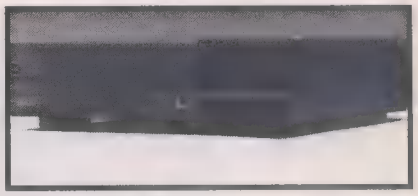
VHS Hi-Fi VCR. 4 video heads; 1-year/8-event; freeze frame; frame advance; forward/reverse scan; slow motion; VISS; VCR+ programming; one-touch record.

SAMSUNG VR8701

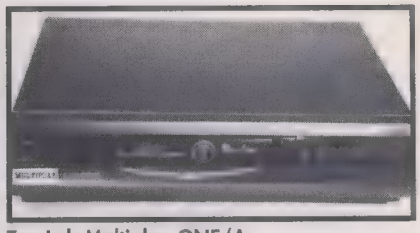
VHS Hi-Fi VCR. 4 video heads; 181 channels; 365-day/8-event programmability; one-touch recording; 45-function unified remote; on-screen programming; VHS Index Search System; slow motion; forward/reverse scan; auto channel programming; LED display for sound level/rec volume; headphone jack.

SHARP VC-H85U

VHS Hi-Fi VCR. Center loading; Artificial Intelligence (AI) Picture System; auto head cleaning; auto tracking control system; automatic noise reduction system.


Mitsubishi HS-U82

Panasonic PV-7000


Ten-Lab Multiplay ONE/A

SONY EV-S900

Hi-8 VCR. 4 video heads; 21-day/6-event programmability; Hi-Fi; MTS; frame advance; freeze frame; slow motion; forward/reverse scan. Editing Features: jog/shuttle dial; flying erase head; audio dubbing; index search. Features: Index Mark; 10-key remote; S-video input/output.

TEN-LAB MULTIPLAY 1/A

VHS Hi-Fi VCR. 4 video heads; 155 channels; playback and recording of PAL, NTSC, SECAM, MESECAM, PAL M, PAL N on any television; Super VHS Quasi-playback allows viewing of SVHS in VHS; multi-voltage.

TOSHIBA SV-F990

SVHS VCR. 4 video heads; 14-day/8-event programmability; one touch record; Hi-Fi; MTS; audio dubbing; frame advance; freeze frame; slow motion; forward/reverse scan; jog/shuttle dial; video dubbing; flying erase head; digital tracking; digital noise reduction; digital superimpose/wipe; digital fader.

VHS HI-FI

BRAND	MODEL	PRICE	HEADS	AUDIO	PROGRAM	TRANSPORT EFFECTS	EDITING FEATURES	OSP	OTR
FISHER	FVH-7600	$449.95	4	Hi-Fi	365/6	FR	VI	Yes	Yes
	FVH-8700	$499.95	4	Hi-Fi	365/6	FA,FF,FR,SM	AD,FE,VI	Yes	Yes
GE	VG4218	NA	4	Hi-Fi	365/8	FA,FF,FR,SM	VI	Yes	Yes
	VG4216	NA	4	Hi-Fi	365/8	FA,FF,FR,SM	VI	Yes	Yes
GOLDSTAR	GVR-A465	$429.95	4	Hi-Fi	365/8	FA,FF,FR,SM	VI	Yes	Yes
	GVR-A485	$499.95	4	Hi-Fi	365/8	FA,FF,FR,SM	AD,FE,JS,VI,VD	Yes	Yes
	GHV-9000M	$429.95	4	Hi-Fi	365/8	FA,FF,FR,SM	—	Yes	Yes
	GHV-8500M	$399.95	2	Hi-Fi	365/8	FR	—	Yes	Yes
GRUNDIG	VS-9500	$899	4	Hi-Fi	31/8	FA,FF,FR	—	Yes	Yes
HITACHI	VT-F351A	$549.95	4	Hi-Fi	365/8	FA,FF,FR,SM	VI	Yes	Yes
	VT-F445A	$649.95	4	H-Fi	365/8	FA,FF,FR,SM	AD,FE,VD,VI	Yes	Yes
	VT-F551A	$729.95	4	Hi-Fi	365/8	FR	AD,FE,JS,VD,VI	Yes	Yes
INSTANT REPLAY	618IT6 50/60	$1995	4	Hi-Fi	31/8	FF, SR, SM	—	Yes	Yes
	618 IT3	$1795	4	Hi-Fi	31/8	FR, SR, SM	—	Yes	Yes
JVC	HR-D910U	$549.95	4	Hi-Fi	365/8	FA,FF,FR,SM	VI,VD	Yes	Yes
	HR-D940U	$599.95	4	Hi-Fi	365/8	FA, FF, FR, SM	JS, VI	Yes	Yes
	HR-D960U	$649.95	4	Hi-Fi	30/8	FA,FF,FR,SM	AD,FE,JS,VI	Yes	Yes
	HR-D970U	$699.95	4	Hi-Fi	30/8	FA,FF,FR,SM	AD,FE,JS,VI	Yes	Yes
MAGNAVOX	VR9060AT	$499.95	4	Hi-Fi	365/8	FF,FR,SM	VI	Yes	Yes
	VR9062AT	$549.95	4	Hi-Fi	365/8	FF,FR,SM	VI	Yes	Yes
	VR9065AT	$569.95	4	Hi-Fi	365/8	FF,FR,SM	VI	Yes	Yes
MITSUBISHI	HS-U54	NA	4	Hi-Fi	28/8	FA,FF,FR,SM	JS,VI	Yes	Yes
	HS-U55	NA	4	Hi-Fi	28/8	FA,FF,FR,SM	FE,JS,VD,VI	Yes	Yes
OPTONICA	VC-G980U	$799.95	4	Hi-Fi	365/8	SM	VI	Yes	Yes
PANASONIC	PV-4160	$429	4	Hi-Fi	NA	FF,FR,SM	—	Yes	Yes
	PV-4164	$499	4	Hi-Fi	NA	FF,FR,SM	JS,VD	Yes	Yes
	PV-4070	$749	4	Hi-Fi	30/8	SM	AD,FE,JS,VD,VI	Yes	Yes
PHILIPS	VR6065	$569.95	4	Hi-Fi	365/8	FF,FR,SM	VI	Yes	Yes
QUASAR	VH6215	$459.95	4	Hi-Fi	31/4	FF,FR,SM	—	Yes	Yes
	VH6415	$529.95	4	Hi-Fi	31/4	FA,FF,FR,SM	—	Yes	Yes
	VH6417	$559.95	4	Hi-Fi	31/4	FA,FF,FR,SM	—	Yes	Yes
	VH6505	$779.95	4	Hi-Fi	31/8	FA,FF,FR,SM	FE,JS,VD	Yes	Yes
RCA	VR660	$509	4	Hi-Fi	365/8	FF, FA, FR, SM	VI	Yes	Yes
	VR665	$529	4	Hi-Fi	365/8	FF, FR, FA, SM	VI	Yes	Yes
	VR680	$579	4	Hi-Fi	365/8	FF, FA, FR, SM	VI	Yes	Yes
	VR690	$629	4	Hi-Fi	365/8	FF, FA, FR, SM	NA	Yes	Yes
	VR696	$699	4	Hi-Fi	365/8	FF, FA, FR, SM	VI, JS	Yes	Yes
REALISTIC	Model 46	$499.95	4	Hi-Fi	365/8	NA	NA	Yes	No
	Model47	$449.95	NA	Hi-Fi	365/6	NA	NA	Yes	No
	Model 49	$449.95	4	Hi-Fi	365/6	NA	NA	Yes	No
	Model 50	$359.95	2	Hi-Fi	365/6	NA	NA	Yes	No
	Model 100	$499.95	4	Hi-Fi	365/6	NA	NA	Yes	No
	Model 34	$419.95	NA	stereo	14/6	NA	NA	Yes	No
SAMSUNG	VR7500F	$649.95	NA	Hi-Fi	14/4	FF, FR	NA	No	Yes
	VR8501	$529.95	4	Hi-Fi	365/8	FR,SM	VI	Yes	Yes
	VR8701	$579.95	4	Hi-Fi	365/8	FR,SM	VI	Yes	Yes

LEGEND — OSP: on-screen programming; OTR: one-touch record; APT: auto programming tuner; PANEL: front panel inputs. FA: frame advance; FF: freeze frame; FR: forward/reverse scan; SM: slow motion. AD: audio dubbing; FE: flying erase head; JS: jog/shuttle dial; VA: address search; VD: video dubbing; VI: index search.

VHS HI-FI (continued)

BRAND	MODEL	PRICE	HEADS	AUDIO	PROGRAM	TRANSPORT EFFECTS	EDITING FEATURES	OSP	OTR
SANYO	VHR9406	$429.99	4	Hi-Fi	365/8	FF, FR, FA, SM	VI	Yes	No
	VHR9670	$399.99	4	Hi-Fi	365/6	FA,FF,FR,SM	VI	Yes	No
SHARP	VC-H85U	$569.95	4	Hi-Fi	365/8	NA	VI	Yes	No
	VC-H75U	$539.95	4	Hi-Fi	365/8	NA	VI	Yes	No
	VC-H870U	$499.95	4	Hi-Fi	365/8	—	—	Yes	No
SONY	SLV-585	$600	4	Hi-Fi	30/8	FA,FF,FR,SM	JS,VI	Yes	Yes
	SLV-686	$650	4	Hi-Fi	30/8	FA,FF,FR,SM	AD, FE,JS,VD,VI	Yes	Yes
SYLVANIA	VC4360	$499.95	4	Hi-Fi	365/8	FF, SM, FR	—	Yes	No
TEN-LAB	TL-1500	$895	4	Hi-Fi	30/4	FA,FF,FR,SM	AD,FE,VD	Yes	No
	Multiplay 1	$2495	4	Hi-Fi	NA	FA,FF,FR,SM	VD	Yes	Yes
	Multiplay 1/A	$2995	4	Hi-Fi	NA	FA,FF,FR,SM	VD	Yes	Yes
TOSHIBA	M-621	$450	NA	Hi-Fi	365/8	FR,SM	VI	Yes	No
	M-641	$500	4	Hi-Fi	365/8	FR,SM	VI	Yes	No
	M-651	$550	4	Hi-Fi	365/8	SM	VI	Yes	Yes
	M-657	$580	4	Hi-Fi	365/8	NA	NA	Yes	No
	M-647	$550	4	Hi-Fi	NA	NA	NA	Yes	No
	M-642	$500	4	Hi-Fi	365/8	NA	NA	Yes	No
ZENITH	VRJ220HF	$439	2	Hi-Fi	365/8	FF,FR	VA,VI	Yes	Yes
	VRJ420HF	$459	4	Hi-fi	365/8	FF,FR	VA,VI	Yes	Yes

LEGEND — OSP: on-screen programming; OTR: one-touch record; APT: auto programming tuner; PANEL: front panel inputs. FA: frame advance; FF: freeze frame; FR: forward/reverse scan; SM: slow motion. AD: audio dubbing; FE: flying erase head; JS: jog/shuttle dial; VA: address search; VD: video dubbing; VI: index search.

S-VHS

BRAND	MODEL	PRICE	HEADS	AUDIO	PROGRAM	TRANSPORT EFFECTS	EDITING FEATURES	OSP	OTR
B&O	VX 5000	$1995	4	Hi-Fi	365/8	FR,FF,SM	VI	No	No
FISHER	FVH-Z1	$1400	4	Hi-Fi	365/6	FA,FF,FR,SM	AD,VI	Yes	Yes
HITACHI	VT-S730A	$1099.95	4	Hi-Fi	365/8	FA,FF,FR	FE,VA,VD,VI	No	Yes
INSTANT REPLAY	77IT6 50/60	$2195	4	Hi-Fi	31/8	FF, SR,SM	VI	Yes	Yes
	77 IT5	$1795	4	Hi-Fi	31/8	FF,SR,SM	VI	Yes	Yes
JVC	HR-S4700U	$799.95	4	Hi-Fi	365/8	FA, FF, FR, SM	FE, VI	Yes	Yes
	HR-S6700U	$999	4	Hi-Fi	31/8	FA, FF, FR, SM	AD, FE, JS, VI	Yes	Yes
	HR-SC1000U	$1599	4	Hi-Fi	14/8	FA,FF,FR,SM	AD,FE,JS,VI,VA	Yes	Yes
MITSUBISHI	HS-U82	$1699	4	Hi-Fi	28/8	FA,FF,FR,SM	AD,JS,FE,VI	Yes	Yes
	HS-U65	NA	4	Hi-Fi	28/8	FA,FF,FR,SM	FE,JS,VD,VI	Yes	Yes
OPTONICA	VC-G990U	$1000	4	Hi-Fi	365/8	FR,SM	VI	Yes	Yes
PANASONIC	PV-S4167	$749	4	Hi-Fi	30/8	FF,FR	AD,FE,JS,VD	Yes	Yes
	PV-S4990	$1649	4	Hi-Fi	30/8	FA,FF,FR,SM	AD,FE,JS,VD,VI	Yes	Yes
QUASAR	VH6408	$819.95	4	Hi-Fi	31/8	FF,FR,SM	VI	Yes	Yes
RCA	VR740HF	$899	4	Hi-Fi	365/8	FA,FF,FR,SM	FE,JS,VD,VI	Yes	Yes
SONY	SLV-R5	$1350	4	Hi-Fi	30/8	FA,FF,FR,SM	AD,FE,JS,VD,VI	Yes	Yes
TEN-LAB	TL-2000	$1595	4	Hi-Fi	14/8	FA,FF,FR,SM	AD,FE,JS,VI	Yes	Yes
TOSHIBA	SV-771	$850	4	Hi-Fi	365/8	NA	AD,FE,VD	Yes	Yes
	SV-F990	$1999	4	Hi-Fi	14/8	FA,FF,FR,SM	AD,FE,JS,VD	No	Yes

LEGEND — OSP: on-screen programming; OTR: one-touch record; APT: auto programming tuner; PANEL: front panel inputs. FA: frame advance; FF: freeze frame; FR: forward/reverse scan; SM: slow motion. AD: audio dubbing; FE: flying erase head; JS: jog/shuttle dial; VA: address search; VD: video dubbing; VI: index search.

VHS

BRAND	MODEL	PRICE	HEADS	PROGRAM	TRANSPORT EFFECTS	EDITING FEATURES	OSP	OTR	APT	Panel
EMERSON	VCR765N	$350	2	28/4	FF,FR	—	No	Yes	No	No
	VCR885N	$380	2	28/4	FF,FR	VI	Yes	Yes	No	No
	VCR964N	$430	4	28/4	FF,FR,SM	VI	Yes	Yes	No	No
FISHER	FVH-2502	$299.95	2	365/6	NA	NA	Yes	Yes	No	Yes
	FVH-4502	$349.95	4	365/6	NA	NA	Yes	Yes	No	Yes
	FVH-7400	NA	4	365/6	—	AD,FE,VI	Yes	Yes	No	Yes
	FVH-8200	$350	NA	365/6	—	VI	Yes	Yes	No	Yes
	FVH-8300	$400	4	365/6	—	VI	Yes	Yes	No	Yes
GE	VG2010	NA	2	14/4	FR, FF	NA	No	Yes	No	No
	VG2011	NA	2	365/4	FR, SM, FF	NA	Yes	Yes	Yes	No
	VG2014	NA	2	365/4	FR, SM, FF	NA	Yes	Yes	Yes	No
	VG2016	NA	2	365/8	FR, FF	VI	Yes	Yes	Yes	No
	VG4012	NA	4	365/4	FR, SM, FF, FA	VA	Yes	Yes	Yes	No
	VG4016	NA	4	365/8	FR, SM, FF, FA	VI	Yes	Yes	Yes	No
	VG4018	NA	4	365/8	FR, SM, FF, FA	NA	Yes	Yes	Yes	No
GOLDSTAR	GVR-A215	$249.95	2	14/8	FF,FR	—	No	Yes	Yes	No
	GVR-A225	$249.95	2	14/8	FF,FR	—	No	Yes	Yes	No
	GVR-A235	$269.99	2	365/8	FF,FR	—	Yes	Yes	Yes	No
	GVR-A245	$269.99	2	365/8	FF,FR	VI	Yes	Yes	Yes	No
	GVR-A435	$299.95	4	365/8	FA,FF,FR,SM	VI	Yes	Yes	Yes	No
	GVR-A445	$329.95	4	365/8	FA,FF,FR,SM	VI	Yes	Yes	Yes	Yes
	GHV-1900M	$269.95	2	365/8	FF,FR	—	Yes	Yes	Yes	No
	GHV-1905M	$249.95	2	14/8	FF,FR	—	No	Yes	Yes	No
	GHV-1921M	$269.95	2	365/8	FF,FR	—	Yes	Yes	Yes	No
	GHV-1926M	$249.95	2	14/8	FF,FR	—	No	Yes	Yes	No
	GHV-4500M	$299.95	2	365/8	FA,FF,FR,SM	—	Yes	Yes	Yes	No
	GHV-4700M	$329.95	4	365/8	FA,FF,FR,SM	—	Yes	Yes	Yes	Yes
GO-VIDEO	GV2010	$799.95	NA	16 event	FR	—	Yes	No	No	No
	VCR-2	$1000	2	365/16	FR	AD,VD	Yes	Yes	No	No
HITACHI	VT-M151A	$299.95	2	365/8	FA,FF,FR,SM	VI	Yes	Yes	No	No
	VT-M137A	$379.95	4	365/8	FA,FF,FR	FE,VD,VI	Yes	Yes	No	No
	VT-M250A	$329.95	4	365/8	FA,FF,FR,SM	VI	Yes	Yes	No	No
	VT-M251A	$359.95	4	365/8	FA,FF,FR,SM	VI	Yes	Yes	No	Yes
INSTANT REPLAY	610 CM	$830	2	31/4	FF, FR	—	Yes	No	No	No
	610 IT3	$795	2	31/2	FF,FR	—	Yes	No	No	No
	611 CM	$995	4	31/2	FF,FR	—	Yes	No	No	No
	611 IT3	$995	4	31/2	FF,FR	—	Yes	No	No	No
	610IT6 50/60	$1295	2	31/4	FR, FF	—	Yes	No	No	No
	611IT6 50/60	$1495	4	31/4	FF,FR	—	Yes	No	No	No
	World Traveler	$2395	4	365/8	FA, FF, FR, SM	—	No	Yes	No	No
JVC	HR-FC100U	$499.95	4	30/8	FA,FF,FR,SM	VI	Yes	Yes	Yes	No
	HR-D760U	$479.95	4	365/8	FA,FF,FR,SM	JS,VI	Yes	Yes	Yes	No
	HR-D720U	$449.95	4	365/8	FA,FF,FR,SM	VD,VI	Yes	Yes	Yes	No
MAGNAVOX	VR9010AT	$299.95	2	365/4	FF,FR,SM	—	Yes	Yes	No	No
	VR9020AT	$329.95	2	365/8	FF,FR,SM	—	Yes	Yes	No	No
	VR9040AT	$369.95	4	365/8	FF,FR,SM	—	Yes	Yes	No	No
	VR9045AT	$399.95	4	365/8	FF,FR,SM	VI	Yes	Yes	No	No
MITSUBISHI	HS-U34	$399	4	16/4	FA, FF, FR, SM	—	Yes	No	No	No
	HS-U35	$449	4	28/4	FA, FF, FR, SM	JS, VI	Yes	Yes	No	No

VHS

BRAND	MODEL	PRICE	HEADS	PROGRAM	TRANSPORT EFFECTS	EDITING FEATURES	OSP	OTR	APT	Panel
PANASONIC	PV-2101	$269	2	30/4	FA,FF,FR,SM	—	Yes	Yes	Yes	No
	PV-4114	$349	4	30/4	FA,FF,FR,SM	VI	Yes	Yes	No	No
	PV-4120	$399	4	30/4	FF,FR	JS,VD	Yes	Yes	No	Yes
	PV-4127	$429	4	30/8	FA,FF,FR	JS,VD	Yes	Yes	No	No
	PV-7000	$499	4	30/8	NA	VI	Yes	Yes	No	No
PHILIPS	VR6405	$399	4	30/8	FA,FF,FR,SM	NA	Yes	Yes	No	No
REALISTIC	Model 83	$399.95	4	365/6	NA	NA	No	Yes	No	No
	Model 82	$319.95	2	365/6	NA	NA	Yes	No	No	No
	Model 88	$359.95	4	365/6	NA	VI	Yes	No	No	No
RCA	VR301	$279	2	14/4	FF, FR	—	No	Yes	No	No
	VR515	$379	4	365/8	FA, FF,FR, SM	VI	Yes	Yes	Yes	Yes
	VR535	$419	4	365/8	FA, FF, FR, SM	—	Yes	Yes	Yes	No
	VR550	$529	4	365/8	FA, FF, FR, SM	—	Yes	Yes	Yes	Yes
SANSUI	S-V7	$300	2	365/6	FR	VI	No	Yes	No	No
SANYO	VHR5203	$289.99	2	365/6	FR	NA	Yes	Yes	No	No
	VHR5403	$319.99	4	365/6	FA, FF, FR, SM	VI	Yes	Yes	No	No
	VH9385	$299.99	4	365/6	FA,FF,FR,SM	VI	Yes	Yes	No	No
SHARP	VC-A45U	$379.95	4	365/8	NA	VI	Yes	No	No	No
	VC-A55U	$419.95	4	365/8	NA	VI	Yes	No	No	No
	VC-A205U	$269.95	NA	14/4	NA	NA	No	No	No	No
SONY	SLV-373	$500	4	30/8	FA,FF,FR,SM	JS,VI	Yes	Yes	No	No
SYLVANIA	VC4310	$299.95	4	365/4	FR, FF, SM	—	Yes	Yes	No	No
	VC4340	$399.95	4	365/4	FF, FR, SM	—	Yes	Yes	No	No
	VC4243	$399.95	4	30/8	FF,SM	—	Yes	Yes	No	No
TEN-LAB	TL-1000B	$695	2	30/4	FF,FR,SM	—	Yes	Yes	No	No
	TL-1100	$795	4	30/4	FA,FF,FR,SM	—	Yes	Yes	No	No
	TL-1800	$1295	4	30/4	FA,FF,FR	—	No	No	No	No
TOSHIBA	M-442	$350	4	365/8	NA	NA	Yes	No	No	No
	M-222	$350	2	365/8	NA	NA	Yes	No	No	No
	M-441	$350	4	365/8	SM	VD,VI	Yes	Yes	No	No
ZENITH	VRJ210	$339.95	2	365/8	FF,FR	VA,VI	Yes	Yes	No	No
	VRJ410	$359.95	4	365/8	FF,FR,SM	VA,VI	Yes	Yes	No	No

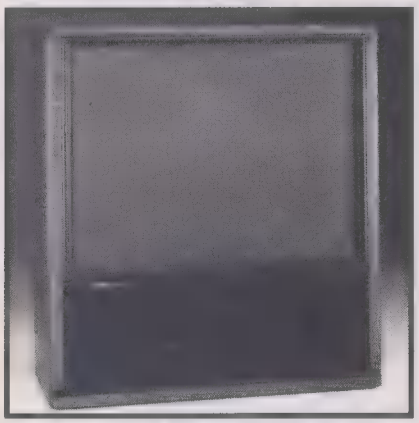
SUPER BETA & 8MM

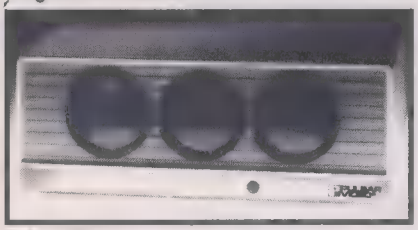
BRAND	MODEL	PRICE	FORMAT	AUDIO	PROGRAM	TRANSPORT EFFECTS	EDITING FEATURES
SONY	EV-S900	$2000	Hi-8	Hi-Fi	21/6	FA,FF,FR,SM	FE,JS,VI
	EV-C3	$500	8mm	Hi-Fi	NA	FA,FF,SM	FE
	EV-S550	$850	8mm	Hi-Fi	30/6	FA,FF,FR,SM	AD,FE
	EV-DT2	$1200	8mm	Hi-Fi	7/3	FA,FF,FR,SM	FE
	SL-S600	$450	Super Beta	mono	7/1	FF,FR,SM	—
	SL-HF360	$500	Super Beta	Hi-Fi	7/6	FF,FR	—
	SL-HF870D	$1200	Super Beta	Hi-Fi	7/6	FA,FF,FR,SM	VD
	SL-HF2100	$1700	Super Beta	Hi-Fi	30/8	FA,FF,FR,SM	AD,FE,VD,VI

LEGEND — OSP: on-screen programming; OTR: one-touch record; APT: auto programming tuner; PANEL: front panel inputs. FA: frame advance; FF: freeze frame; FR: forward/reverse scan; SM: slow motion. AD: audio dubbing; FE: flying erase head; JS: jog/shuttle dial; VA: address search; VD: video dubbing; VI: index search.

BUYER'S GUIDE VIDEO BEST

Panasonic Prism CTN-2794S


Magnavox RM8550


Pulsar Showman

Sharp XV-101TU

HITACHI 50VX8W

Rear Projection Television. 50 in.; 900 lines; brightness: 500 foot/lamberts; picture-in-picture; two remote controls; 4-way surround sound including Dolby Pro Logic; Fine Definition System; 30-watt power amplifier; on-screen display

JVC AV-3590S

35 in. monitor/receiver; 180 channels. Video Features: PIP. Audio Features: Surround sound. Special Features: Artificial Intelligence; automatically determines 3 most frequently-viewed, TV and or cable shows during daytime (4:00am to 6:00pm) and evening (6:00pm to 4:00am); auto volume; category preview; multi-channel index; digital strobe; viewer index; 5 stored channels for each of the 5 categories of channel listings (network, movies, sports, news, choice); child timer; power-off; Dolby surround sound; center speaker.

MAGNAVOX LC-100

LCD projector. 26-184-inches; 122 channels; MTS/SAP; 2 S-video inputs; horizontal resolution: 360 lines; universal remote control; headphone jack; channel scan; parental lock; on-screen display

MITSUBISHI CS-3506R

35 in. monitor/receiver; 181 channels; horizontal resolution: 700 lines. Video Features: S-video jack/Y-C terminal; 2 video inputs; on-screen display; PIP; programmable timer. Audio Features: 2 audio inputs; 4 speakers included; MTS. Special Features: black diamond gray finish; off timer; channel lock; comb filter; 5w/ch; external speaker terminals.

MITSUBISHI VS-7017R

Rear projection television. 70-in.; 181 channels; MTS/SAP; S-video jack; picture-in-picture; brightness: 320 ft.-L; horizontal resolution: 800 lines.

OPTONICA 32NL601

32 in. monitor/receiver; horizontal resolution: 750 lines. Video Features: on-screen display. Audio Features: MTS; Surround sound. Special Features: Auto flesh tone circuit; parental lock; dual RF inputs.

PANASONIC CTN-2794S

27" Monitor/Receiver. Picture-in-picture; Dome Sound System; built-in stereo decoder; dbx noise reduction; SAP circuitry; channels skip timer; S-video input; 99 channels; auto programmable scan; universal remote; on-screen display; 600 lines of horizontal resolution.

PHILIPS 27S222C

27" Monitor/Receiver. 178 channels; 600 lines of horizontal resolution; stereo hi-fi sound with built-in MTS/SAP decoder and dbx noise reduction; on-screen displays; 36-key universal remote; S-video input.

PHILIPS 31P372C

31" Monitor/Receiver. Horizontal resolution: 600 lines; 178 channels; MTS/SAP; 12.5 watt per channel surround sound stereo system; picture-in-picture; S-video input; on-screen display; 42-key universal remote.

PIONEER PRO-95

Rear projection television. 50-in.; horizontal resolution: 820 lines; brightness: 420 ft.-L; multi-picture display allows for dividing of the picture into 4 or 9 segments; MTS; S-jack input.

PROTON VT-331

31 in. monitor/receiver; 180 channels; horizontal resolution: 600 lines. Video Features: S-video jack/Y-C terminal; 3 video inputs. Audio Features: 3 audio inputs; 3 audio outputs. Special Features: Video noise reduction; Aphex Aural Exciter circuit; seperate bass, treble and balance controls; comb filter.

PULSAR SHOWMAN

Video projector. Built into contemporary coffee table/console; screen size of image: 72 inches; MTS stereo; on-screen menu display; 178 channel tuning; cable ready; system install/auto channel search; multi-PIP; on-screen channel display; light output: 550 lumens; hor. res.: 600 lines; parental control; optional wall screen.

RCA F27189ET

27" Monitor/Receiver. 181 channels; broadcast stereo with dbx noise reduction; surround sound; 5 watts/channel; SAP; 500 lines of resolution through S-video input; universal remote; commercial skip; on-screen displays; auto-programming; 13-jack V/A monitor panel; S-video input.

RCA F31223GG

31" Monitor/Receiver. Horizontal resolution: 500 lines; 181 channels; broadcast stereo with dbx noise reduction; surround sound; 5 watts/channel amplifier; SAP; 38-button universal remote control; commercial skip; parental control; on-screen display; auto-programming; 13-jack V/A monitor panel; S-video input.

SHARP XV-101TU

LCD video projector. Screen size of image adjusts from 20 to 100 inches; 3 3-inch LCD panels; 268,515 pixels; hor. res.: over 300 lines. Weight: 30 lbs.

SONY KV-29XBR85

29" Monitor/Receiver. ASC Theater Mode; super-woofer speaker; 40-watt amplifier; SRS; programmable/universal remote control; 5 favorite channels; picture-in-picture; digital memo memory; split-screen; channel index.

SONY XBR PRO

25" Monitor/Receiver. 181 channels; 560-line horizontal resolution; built-in MTS/SAP decoder; on-screen display; second remote for monitor use only.

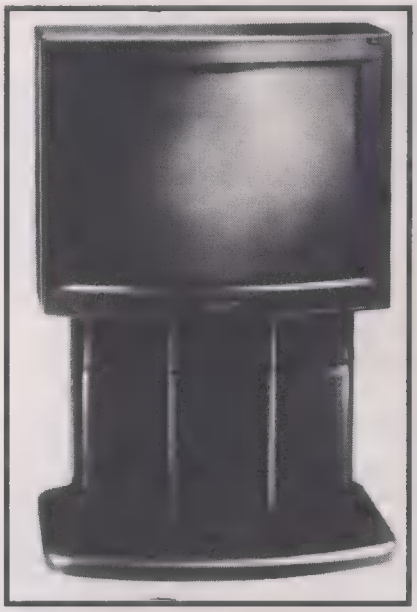
ZENITH SJ2071W

20" Monitor/Receiver. 178 channels; SEq audio system; MTS/SAP stereo with dbx noise reduction; 550-line horizontal resolution; on-screen display; video sentry; auto/favorite channel search; A/V input jacks; universal remote control.

ZENITH SJ2779BG

27" Monitor/Receiver. 655 lines of horizontal resolution; 178 channels; MTS/SAP; Spatial Equalization (SEq); surround sound; picture-in-picture; 3D on-screen menus; S-video input; learning remote.

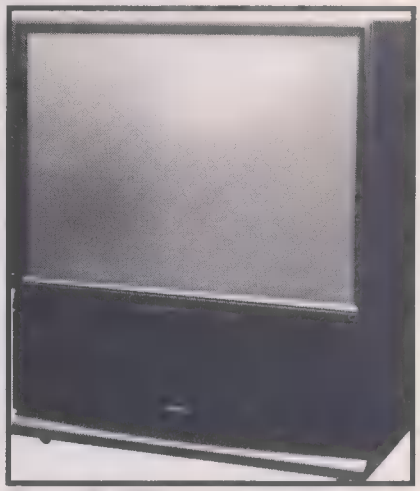
Proton VT-331



Sony KV-29XBR85

Mitsubishi VS-7002R

Zenith SJ2779BG



Pioneer SD-P505

RCA F27189ET

REAR PROJECTION

BRAND	MODEL	PRICE	SCREEN SIZE	No. of CHANNELS	MTS	SURROUND	S-JACK	P-I-P	BRIGHTNESS (ft-L)	HOR. RES.
HITACHI	46VX7BK	$2999.95	46	181	Yes	Yes	Yes	Yes	600	900
	50VX8W	$3699.95	50	181	Yes	Yes	Yes	Yes	500	900
	CU4061B	$3000	46	181	Yes	Yes	Yes	No	460	825
	60SX1K	$4399.95	60	181	Yes	Yes	Yes	Yes	380	1000
	46EX1B	$2499.95	46	181	Yes	Yes	Yes	No	400	750
	55EX1K	$2899.95	55	181	Yes	Yes	Yes	No	290	750
MAGNAVOX	RM8510A	$1999	41	178	Yes	Yes	Yes	Yes	600	500
	RM8530A	$2299	46	178	Yes	Yes	Yes	Yes	500	550
	RM8570A	$3399	61	178	Yes	Yes	Yes	Yes	300	600
	RM8564A	$3399	52	178	Yes	Yes	Yes	Yes	400	600
MITSUBISHI	VS-4007R	$2499	40	181	Yes	No	Yes	Yes	460	700
	VS-45175	$3299	45	181	Yes	No	Yes	Yes	390	700
	VS-50VX2	NA	50	181	Yes	No	Yes	Yes	230	800
	VS-6026R	$4899	60	181	Yes	No	Yes	Yes	320	800
	VS-6017R	$4299	60	181	Yes	No	Yes	Yes	320	800
	VS-5017S	$3699	50	181	Yes	No	Yes	Yes	390	800
	VS-5016R	$3699	50	181	Yes	No	Yes	Yes	390	800
	VS-5007R	$3199	50	181	Yes	No	Yes	Yes	390	800
	VS-5006R	$3199	50	181	Yes	No	Yes	Yes	390	800
	VS-4507R	$2999	45	181	Yes	No	Yes	Yes	480	700
	VS-4506R	$2999	45	181	Yes	No	Yes	Yes	480	700
	VS-60VX2	NA	60	181	Yes	No	Yes	Yes	230	800
	VS-7017R	$6399	70	181	Yes	No	Yes	Yes	320	800
PANASONIC	PTN-4075S	$1899.95	40	155	Yes	No	Yes	No	300	400
	PTN-4578S	$2099.95	45	155	Yes	No	Yes	No	250	500
	PTP-5186S	$2999.95	51	155	Yes	Yes	Yes	Yes	350	700
	PTM-5187S	$2699.95	51	155	Yes	No	Yes	No	250	500
PHILIPS	52MP50A	$3299	52	178	Yes	Yes	Yes	Yes	400	600
	61MP60A	$3799	60	178	Yes	Yes	Yes	Yes	300	600
PIONEER	SD-P5553	$4500	55	127	Yes	No	Yes	Yes	350	820
	P4051	$2700	40	127	Yes	No	Yes	No	570	730
	SD-P5057	$4300	50	127	Yes	No	Yes	Yes	420	820
	P5053	$3900	50	127	Yes	No	Yes	Yes	420	820
	P505	$3500	50	127	Yes	No	Yes	No	420	820
	P4553	$3400	45	127	Yes	No	Yes	Yes	500	760
	P455	$3100	45	127	Yes	No	Yes	No	500	760
QUASAR	SR4000FK	$2239.95	40	155	Yes	No	Yes	No	300	400
	SR4500FK	$2479.95	45	155	Yes	No	Yes	No	250	400
	SR4540FE	$3349.95	45	181	Yes	Yes	Yes	Yes	450	700
	SR4540FK	$3349.95	45	181	Yes	Yes	Yes	Yes	450	700
	SR5140FE	$3479.95	51	181	Yes	Yes	Yes	Yes	380	700
	SR5140FK	$3479.95	51	181	Yes	Yes	Yes	Yes	380	700
RCA	P46101WK	$2349	46	181	Yes	Yes	Yes	No	500	500
	P46151WK	$2599	46	181	Yes	Yes	Yes	Yes	500	500
	P46159WK	$2699	46	181	Yes	Yes	Yes	Yes	500	500
	P52151WK	$2899	52	181	Yes	Yes	Yes	Yes	400	500

REAR PROJECTION (continued)

BRAND	MODEL	PRICE	SCREEN SIZE	No. of CHANNELS	MTS	SURROUND	S-JACK	P-I-P	BRIGHTNESS (ft-L)	HOR. RES.
SONY	KPR-53CX35	$4499.99	53	181	Yes	No	Yes	Yes	250	700
	KPR-46EX35	$3299.99	46	181	Yes	No	Yes	Yes	450	700
	KPR-46EX30	$3099	46	181	No	No	Yes	No	450	700
	KPR-46CX35	$3699	46	181	Yes	No	Yes	Yes	450	700
	KPR-53EX35	$3899	53	181	Yes	No	Yes	Yes	370	700
	KPR-46EX32	$3099.99	46	181	No	No	Yes	No	450	700
SYLVANIA	RSM410A	$1999.95	41	178	Yes	Yes	No	Yes	600	450
	RSM430A	$2299.95	46	178	Yes	Yes	No	Yes	550	550
	RSM450A	$2900	52	178	Yes	Yes	No	Yes	400	600
	RSM460A	$3300	61	178	Yes	Yes	No	Yes	300	600
TOSHIBA	TP5580A	$3999	55	181	Yes	Yes	Yes	Yes	450	800
	TP4880A	$3599	48	181	Yes	Yes	Yes	Yes	600	800
ZENITH	PV4655Y/LK	$2395	46	178	Yes	Yes	Yes	Yes	400	800
	PV5255LK	$3195	52	178	Yes	Yes	Yes	Yes	330	800
	ZB4683RK	$3295	46	178	Yes	Yes	Yes	Yes	400	800
	ZB5283RK	$3895	52	178	Yes	Yes	Yes	Yes	330	800

VIDEO PROJECTORS

BRAND	MODEL	PRICE	SCREEN SIZE	No. of CHANNELS	MTS	SURROUND	S-JACK	P-I-P	BRIGHTNESS (ft-L)	HOR. RES.
BARCO	Vision 600S	$6995	NA	NA	No	No	Yes	No	NA	NA
	1500-HDTV	NA	NA	NA	No	No	Yes	No	NA	770
CITIZEN	LCD	NA	20-60	NA	No	No	NA	No	NA	NA
MAGNAVOX	LC-100	$6300	26-184	122	Yes	No	Yes	No	NA	360
MITSUBISHI	VS-12005R	$17-20,000	120	181	Yes	No	Yes	Yes	NA	800
	VS-1000R	$6499	100	181	Yes	No	No	No	NA	800
PULSAR	Showman	$3995	72	178	Yes	Yes	Yes	Yes	650	600
	Prodigy	$4595	96	178	Yes	Yes	Yes	Yes	650	600
	Prodigy Excel	$6995	60-300	178	Yes	Yes	Yes	Yes	750	1500
RUNCO	CPD600	$4470	60-240	NA	Yes	No	Yes	No	600	NA
	CPD600-T	$4840	60-240	178	Yes	No	Yes	Yes	600	NA
	IDP800	$3990	60-120	NA	No	No	Yes	No	600	NA
	600-T	NA	NA	178	No	No	No	Yes	600	NA
SHARP	XV-101TU	$4500	20-100	NA	No	No	No	No	NA	300
	XV-120ZU	$4000	20-100	NA	No	No	Yes	No	NA	300
VIDIKRON	TGS 200	$5995	72-180	NA	No	No	Yes	No	600	560
	TGS 200HDG	$7695	60-180	NA	No	No	Yes	No	600	600
	TGS ONE	$4995	72-144	NA	No	No	Yes	No	470	560
ZENITH	Pv890X	$3995	60-120	178	Yes	No	Yes	Yes	600	800
	PV885P	NA	60-120	178	Yes	No	Yes	Yes	NA	NA

** NOTE: All information and suggested retail prices are provided by manufacturers.*

SCREEN SIZES OVER 29 INCHES

BRAND	MODEL	PRICE	SCREEN SIZE	No. of CHANNELS	MTS	SURROUND	OSD	S-JACK	P-I-P	UNIFIED REMOTE	HOR. RES.
EMERSON	TS3050DN	$1600	30	181	Yes	Yes	Yes	Yes	No	Yes	550
HITACHI	31KX1B	$1400	31	181	Yes	Yes	Yes	Yes	No	Yes	650
	31KX2B	$1700	31	181	Yes	Yes	Yes	Yes	No	Yes	650
	CT-3148K	$2000	31	181	Yes	Yes	Yes	Yes	No	Yes	700
JVC	AV3151S	$1499.95	31	180	Yes	Yes	Yes	Yes	No	No	700
	AV3171S	$1650	31	180	Yes	Yes	Yes	Yes	Yes	Yes	700
	AV3291S	$2200	32	180	Yes	Yes	Yes	Yes	Yes	Yes	800
	AV3551S	$2599.95	35	180	Yes	Yes	Yes	Yes	No	No	750
	AV3591S	$2899.95	35	180	Yes	Yes	Yes	Yes	Yes	Yes	800
KENWOOD	KMT-5032	$1999	32	181	Yes	No	Yes	Yes	Yes	Yes	700
MAGNAVOX	CS5160A	NA	31	178	Yes	No	Yes	Yes	No	Yes	600
	CP5180A	NA	31	178	Yes	Yes	Yes	Yes	Yes	Yes	600
MISTUBISHI	CS-3135R	$2199	31	181	Yes	No	Yes	Yes	Yes	Yes	650
	CK-3136R	$2299	31	181	Yes	No	Yes	Yes	Yes	Yes	650
	CS-3515R	$2199	35	181	Yes	No	Yes	Yes	No	Yes	700
	CS-3525R	$2499	35	181	Yes	No	Yes	Yes	Yes	Yes	700
	CK-3526R	$2699	35	181	Yes	No	Yes	Yes	Yes	Yes	700
	CK-3527R	$2799	35	181	Yes	No	Yes	Yes	Yes	Yes	700
	CK-3535R	$2899	35	181	Yes	No	Yes	Yes	Yes	Yes	700
	CK-3536R	$2999	35	181	Yes	No	Yes	Yes	Yes	Yes	700
PANASONIC	CTM-3185S	$1600	31	155	Yes	Yes	Yes	Yes	No	Yes	500
	CTP-3196SF	$1799.95	31	181	Yes	Yes	Yes	Yes	Yes	Yes	750
	CTN-3178S	$1400	31	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	CTN-3188S	$1500	31	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	CTM-3191S	$2000	31	155	Yes	Yes	Yes	Yes	No	Yes	600
	CTM-3192S	$2200	31	155	Yes	Yes	Yes	Yes	Yes	Yes	600
	CTM-3199S	$2400	31	155	Yes	Yes	Yes	Yes	No	Yes	600
PHILIPS	31P372C	$1599.95	31	178	Yes	Yes	Yes	Yes	Yes	Yes	600
PROTON	VT-331	$2200	31	181	Yes	No	Yes	Yes	No	Yes	600
RCA	F31223GG	NA	31	181	Yes	Yes	Yes	Yes	No	Yes	500
	F31226ES	NA	31	181	Yes	Yes	Yes	Yes	Yes	Yes	650
	F35100ST	NA	35	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	G35302WK	NA	35	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	G35303SK	NA	35	181	Yes	Yes	Yes	Yes	Yes	Yes	700
SAMSUNG	TC7000S	NA	31	181	Yes	No	Yes	Yes	No	No	NA
SHARP	32A-S300	NA	32	NA	Yes	No	Yes	Yes	No	No	750
SONY	KV-32XBR55	$2300	32	181	No	No	Yes	Yes	Yes	Yes	600
	KV-32XBR51	$2300	32	181	No	No	Yes	Yes	No	Yes	600
	KV-32XBR75	$2800	32	181	No	No	Yes	Yes	Yes	Yes	600
	KV-29XBR85	NA	29	181	No	No	Yes	Yes	Yes	Yes	550
	KV-32HSR10	$2000	32	181	No	No	Yes	Yes	No	Yes	600
	KV-32TW75	$2200	32	181	No	Yes	Yes	Yes	Yes	No	500
	KV-32TS35	$2000	32	181	No	Yes	Yes	Yes	Yes	No	500
SYLVANIA	SPC3185	$1499.95	31	178	Yes	No	Yes	Yes	Yes	Yes	600
	SPA5185	$1999.95	31	178	Yes	No	Yes	Yes	Yes	Yes	600
TOSHIBA	CF3062A	$1399	30	181	Yes	Yes	Yes	Yes	No	Yes	700
	CF3066A	$1599	30	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	CX3285A	$2399	32	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	CX3268A	$2699	32	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	CX3298K	$3199	32	181	Yes	Yes	Yes	Yes	Yes	Yes	700
	CF3566A	$2699	35	181	Yes	Yes	Yes	Yes	Yes	Yes	800
	CX3586A	$3199	35	181	Yes	Yes	Yes	Yes	Yes	Yes	800
ZENITH	ZB3294S	$1995	32	178	Yes	Yes	Yes	Yes	Yes	Yes	560
	ZB3551T	$3095	35	178	Yes	Yes	Yes	Yes	Yes	Yes	560

SCREEN SIZES 25- TO 27-INCHES

BRAND	MODEL	PRICE	SCREEN SIZE	No. of CHANNELS	MTS	SURROUND	OSD	S-JACK	P-I-P	UNIFIED REMOTE	HOR. RES.
B&O	MX 5500	$2500	26	125	Yes	No	Yes	Yes	Yes	Yes	450
EMERSON	TC2555D	$599.95	25	181	No	No	Yes	No	No	No	320
	TS2585D	$699.95	25	181	Yes	No	Yes	No	No	No	320
	TS2760D	$899.95	27	181	Yes	No	Yes	No	No	Yes	500
FISHER	PC-1525	$429.95	25	178	Yes	No	No	No	No	No	260
	PC-1526	$479.95	26	178	Yes	No	No	No	No	No	260
	PC-1527	$529.95	27	178	Yes	No	No	Yes	No	No	530
	PC-1627	$599.95	27	178	Yes	No	No	Yes	No	Yes	530
GOLDSTAR	CMT-2562A	$499.95	25	181	No	No	Yes	No	No	No	330
	CMT-2565A	$429.95	25	181	No	No	Yes	No	No	No	330
HITACHI	27MX1B	$749.95	27	181	Yes	Yes	Yes	No	No	No	525
	CT-7882	$799.95	27	181	Yes	Yes	Yes	Yes	No	Yes	600
	CT-7883B	$799.95	27	181	Yes	Yes	Yes	Yes	No	Yes	600
	CT-7892B	$899.95	27	181	Yes	Yes	Yes	Yes	No	Yes	650
	CT-7893	$899.95	27	181	Yes	Yes	Yes	Yes	No	Yes	650
	CT-7894B	$999.95	27	181	Yes	Yes	Yes	Yes	No	Yes	650
	CT-7846	$999.95	27	181	Yes	Yes	Yes	Yes	Yes	Yes	650
	CT-7986	$1299.95	27	181	Yes	Yes	Yes	Yes	No	Yes	560
	CT-789BB	$1099.95	27	181	Yes	Yes	Yes	Yes	No	Yes	650
JVC	AV26515	$649.95	26	180	Yes	No	Yes	Yes	No	No	450
	AV27615	$799.95	27	180	Yes	Yes	Yes	Yes	No	No	500
	AV27715	$929.95	27	180	Yes	Yes	Yes	Yes	Yes	Yes	550
	AV27815	$1099.95	27	180	Yes	Yes	Yes	Yes	Yes	Yes	650
MAGNAVOX	CS4535A	NA	25	178	Yes	No	Yes	No	No	Yes	NA
	CS4536P	NA	25	178	Yes	No	Yes	No	No	Yes	NA
	CP4570A	NA	25	178	Yes	No	Yes	No	Yes	Yes	NA
	CP4571P	NA	25	178	Yes	No	Yes	No	Yes	Yes	NA
	CS4750A	NA	27	178	Yes	No	Yes	No	No	Yes	600
	CP4760A	NA	27	178	Yes	No	Yes	Yes	Yes	Yes	600
MITSUBISHI	CS-2610R	$699	26	181	Yes	No	Yes	Yes	No	Yes	560
	CS-2611R	$699	26	181	Yes	No	Yes	Yes	No	Yes	560
	CK-2607	$999	26	181	Yes	No	Yes	No	No	No	560
	CS-2710R	$799	27	181	Yes	No	Yes	Yes	No	Yes	560
	CS-2715R	$899	27	181	Yes	No	Yes	Yes	No	Yes	600
	CS-2724R	$999	27	181	Yes	No	Yes	Yes	Yes	Yes	600
	CS-2725R	$1099	27	181	Yes	No	Yes	Yes	Yes	Yes	600
PANASONIC	CTN-2560R	$449	25	155	No	No	Yes	No	No	No	330
	CTM-2580S	$529.95	25	155	Yes	No	Yes	No	No	No	550
	CTN-2762S	$649.95	27	155	Yes	No	Yes	No	No	No	600
	CTN-2766S	$679.95	27	155	Yes	No	Yes	Yes	No	Yes	600
	CTN-2768S	$749.95	27	181	Yes	No	Yes	Yes	Yes	Yes	600
	CTM-2571S	$619.95	25	155	Yes	No	Yes	No	No	No	NA
	CTN-2573S	$639.95	25	155	Yes	No	Yes	No	No	No	550
	CTM-2771S	$719.95	27	155	Yes	No	Yes	Yes	No	Yes	NA
	CTM-2781S	$749.95	27	155	Yes	No	Yes	Yes	No	Yes	NA
	CTM-2775S	$699.95	27	155	Yes	No	Yes	No	No	Yes	600
	CTN-2788S	$849.95	27	181	Yes	Yes	Yes	No	Yes	Yes	600
	CTN-2794S	$849.95	27	181	Yes	No	Yes	Yes	Yes	Yes	600
	CTM-2791S	$1099.95	27	155	Yes	Yes	Yes	Yes	No	Yes	600
	CTM-2797S	$1399.95	27	155	Yes	Yes	Yes	Yes	No	Yes	600
	CTM-2799S	$1499.95	27	155	Yes	Yes	Yes	Yes	No	Yes	600

SCREEN SIZES 25- TO 27-INCHES (continued)

BRAND	MODEL	PRICE	SCREEN SIZE	No. of CHANNELS	MTS	SURROUND	OSD	S-JACK	P-I-P	UNIFIED REMOTE	HOR. RES.
PHILIPS	27S242C	$799.95	27	178	Yes	Yes	Yes	Yes	No	Yes	600
	27P275C	$1099.95	27	178	Yes	Yes	Yes	Yes	Yes	Yes	600
	27S222C	$699.95	27	178	Yes	No	Yes	Yes	No	Yes	600
PROTON	VT-2905	$1050	27	139	Yes	No	Yes	Yes	No	Yes	550
	VT-296	$1300	27	181	Yes	No	Yes	Yes	No	Yes	550
QUASAR	SL2734EK	$829.95	27	155	No	No	Yes	Yes	No	No	500
RCA	F25163WN	NA	25	178	No	No	Yes	No	No	No	NA
	G25119HP	NA	25	178	No	No	Yes	No	No	No	NA
	G25189TK	NA	25	178	No	No	Yes	Yes	No	Yes	400
	F26051EM	NA	26	178	No	No	Yes	Yes	No	Yes	500
	F27235ET	NA	27	181	Yes	Yes	Yes	Yes	Yes	Yes	560
	F27228ET	NA	27	181	Yes	Yes	Yes	Yes	Yes	Yes	500
	G27400WK	NA	27	181	Yes	Yes	Yes	Yes	Yes	Yes	500
SAMSUNG	TC2550S	NA	25	181	Yes	No	Yes	Yes	No	No	NA
	TC2750S	NA	27	181	Yes	No	Yes	Yes	No	No	NA
SANYO	AVM252A	$370	25	178	No	No	No	No	No	No	260
	AVM276A	$480	26	178	Yes	No	No	No	No	No	530
	AVM2751	$530	27	178	Yes	No	No	No	No	No	530
SHARP	25A-M100	NA	25	NA	No	No	Yes	No	No	No	NA
	25A-S100	NA	25	NA	No	No	Yes	No	No	No	NA
	27A-S100	NA	27	NA	No	No	Yes	No	No	No	NA
	27A-S300	NA	27	NA	Yes	No	Yes	Yes	No	Yes	NA
SONY	KV-27TS27	$830	27	181	No	Yes	Yes	No	No	No	500
	KV-27EXR20	$950	27	181	No	Yes	Yes	Yes	No	No	550
	KV-27HSR10	$1050	27	181	No	No	Yes	Yes	No	Yes	550
	KV-27XBR51	$1250	27	181	No	No	Yes	Yes	Yes	Yes	550
	KV-27XBR55	$1150	27	181	No	No	Yes	Yes	Yes	Yes	550
	KV-27EXR90	$1150	27	181	No	No	Yes	Yes	Yes	Yes	550
	KV-27EXR25	$1050	27	181	No	Yes	Yes	Yes	Yes	No	550
SYLVANIA	SPA4565	$599.95	25	178	Yes	Yes	Yes	No	Yes	Yes	NA
	SSA4545	$599.95	25	178	Yes	No	Yes	No	No	Yes	NA
	SPC2785	$999.95	27	178	Yes	Yes	Yes	Yes	Yes	Yes	600
	SSW2561	$499.95	25	178	Yes	No	Yes	No	No	Yes	NA
	SPA2580	$599.95	25	178	Yes	No	Yes	No	Yes	Yes	500
TOSHIBA	CX2785K	$1299	27	181	Yes	Yes	Yes	Yes	Yes	Yes	650
	CX2786A	$1299	27	181	Yes	Yes	Yes	Yes	Yes	Yes	650
	CX2780A	$899	27	181	Yes	Yes	Yes	Yes	Yes	Yes	650
	CF2771A	$749	27	181	Yes	Yes	Yes	Yes	No	Yes	650
	CF2767A	$699	27	181	Yes	No	Yes	Yes	No	No	650
	CF2666A	$629	26	181	Yes	No	Yes	Yes	No	No	500
ZENITH	SS2508LK	$699	25	178	Yes	No	Yes	No	No	No	NA
	SJ2524VK	$699	25	178	Yes	No	Yes	No	No	No	NA
	SJ2526EW	$699	25	178	Yes	No	Yes	No	No	No	NA
	SJ2745TR	$1099	27	178	Yes	Yes	Yes	Yes	Yes	Yes	560
	SJ2737RK	$979	27	178	Yes	No	Yes	No	No	Yes	560
	SJ2735LK	$899	27	178	Yes	No	Yes	No	No	Yes	560
	ZB2794BG	$1295	27	178	Yes	Yes	Yes	Yes	Yes	Yes	560
	ZB2751T	$1395	27	178	Yes	Yes	Yes	Yes	Yes	Yes	560

SCREEN SIZES 19- TO 20-INCHES

BRAND	MODEL	PRICE	SCREEN SIZE	No. of CHANNELS	MTS	SURROUND	OSD	S-JACK	P-I-P	UNIFIED REMOTE	HOR. RES.
EMERSON	TC1965A/D	$399.95	19	181	No	No	Yes	No	No	No	260
	TS2041D	$499.95	20	181	No	No	Yes	No	No	No	260
FISHER	PC-1020	$279.95	20	178	No	No	No	No	No	No	260
	PC-1520	$319.95	20	178	Yes	No	No	No	No	No	260
GOLDSTAR	CMR-9210A	$249.95	19	69	No	No	Yes	No	No	No	270
	CMT-2109A	$379.95	20	181	No	No	Yes	No	No	No	300
HITACHI	CT-2033B	$359.95	20	181	No	No	Yes	No	No	No	260
	CT-2043B	$429.95	20	181	Yes	Yes	Yes	No	No	No	260
	CT-2088B	$479.95	20	181	Yes	Yes	Yes	No	No	No	430
JVC	AV2061	$479.95	20	180	Yes	No	Yes	No	No	No	NA
	AV2081S	$579.95	20	180	Yes	Yes	Yes	Yes	No	No	450
MAGNAVOX	RS208SC	NA	20	178	Yes	No	Yes	No	No	Yes	500
	RP2090	NA	20	178	Yes	No	Yes	Yes	Yes	Yes	500
	RS1970C	NA	19	178	Yes	No	Yes	No	No	Yes	NA
MITSUBISHI	CS-2002R	$399	20	181	No	No	Yes	No	No	No	400
	CS-2005R	$449	20	181	Yes	No	Yes	No	No	No	400
	CS-2010R	$549	20	181	Yes	No	Yes	Yes	No	Yes	560
PANASONIC	CTN-1955R	$319.95	19	155	No	No	Yes	No	No	No	500
	CTM-2065S	$429.95	20	155	Yes	No	Yes	No	No	No	550
	CTM-2092S	$449.95	20	155	Yes	No	Yes	Yes	No	Yes	500
PHILIPS	20S152C	$499.95	20	178	Yes	No	Yes	Yes	No	Yes	500
PROTON	VM-210	$650	20	181	No	No	No	No	No	No	400
	VT-215	$630	20	181	Yes	No	Yes	Yes	No	Yes	600
	VT-217	$800	20	181	Yes	No	Yes	Yes	No	Yes	600
QUASAR	SP2030W	$399.95	20	155	No	No	Yes	No	No	No	330
	SP2031FW	$419	20	155	No	No	Yes	No	No	No	500
	SP1930FE	$399	19	155	No	No	Yes	No	No	No	500
RCA	F20571EM	NA	20	178	No	No	Yes	Yes	No	Yes	400
	F20600ET	NA	20	178	No	No	Yes	Yes	No	Yes	400
	F20706FT	NA	20	181	Yes	Yes	Yes	Yes	No	Yes	400
SAMSUNG	TC9865TB	NA	19	128	No	No	Yes	No	No	No	NA
	TC9845S	NA	19	139	Yes	No	Yes	No	No	No	NA
	TC2065S	NA	20	181	Yes	No	Yes	No	No	No	NA
SANYO	AVM1901	$269.99	19	178	No	No	No	No	No	No	260
	AVM2001	$279.99	20	178	No	No	No	No	No	No	260
	AVM2051	$329.99	20	178	Yes	No	No	No	No	No	260
SHARP	19A-M100	NA	19	NA	No	No	Yes	No	No	No	NA
	20A-M100	NA	20	NA	No	No	Yes	No	No	No	NA
	20A-M300	NA	20	NA	No	No	Yes	No	No	Yes	NA
SONY	KV-19TS20	$479.99	19	181	No	No	Yes	No	No	No	NA
	KV-20TR22	$449.99	20	181	No	No	Yes	No	No	No	NA
	KV-20TS27	$529.99	20	181	No	No	Yes	No	No	No	NA
	KV-20EXR20	$579.99	20	181	Yes	Yes	Yes	Yes	No	No	550
SYLVANIA	SSB1955	$399.95	19	178	Yes	No	Yes	No	No	Yes	330
	SRW2020	$350	20	178	No	No	Yes	No	No	Yes	330
TOSHIBA	CF2055A	$479	20	181	Yes	No	Yes	No	No	No	NA
	CF2077A	$629	20	181	Yes	No	Yes	Yes	No	Yes	500
ZENITH	SS1937S	$379.95	19	178	Yes	No	Yes	No	No	No	NA
	SJ2065 w/s/x	$429.95	20	178	Yes	No	Yes	No	No	Yes	NA
	SJ2071W	$499	20	178	Yes	No	Yes	No	No	Yes	500

LASERDISC & COMBINATION PLAYERS

CARVER MD/V-5005
Combi Player. 3/5/8/12-inch discs; programmable access to 16 video chapters or 16 CD tracks; full skip search; freeze and frame-by-frame access; multi-speed scan; direct digital output; variable headphone volume.

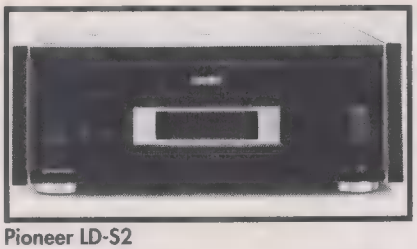
DENON LA-3000
Combination LaserDisc Player; 3/5/8/12/-inch discs; on-screen display; 20 programmable selections; direct title selection; Auto Space and Auto Edit dubbing functions; random playback; S-video output; motor-driven volume control.

HITACHI VIP-RX6EX
Combination LaserDisc Player; 3/5/8/12-inch discs; eight-times oversampling; Compu Program Edit for auto track selection to fit on tape; direct program search; random play; intro scan; variable speed search; freeze frame; on-screen display; headphone jack w/level control; remote control.

KENWOOD LVD-700
Laser Multi Disc Player; 3/5/8/12-inch discs; 20 programmable tracks; track/chapter search; digital time base correction; Midnight Theater function; headphone jack; on-screen display.

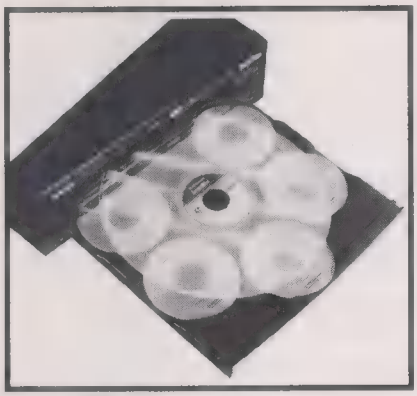
MAGNAVOX CDV-485
Combination LaserDisc Player. 3/5/8/12-inch compact and video discs; 20 track/chapter programming; shuffle play; favorite track selection; repeat track, chapter, disc or A/B; headphone jack.

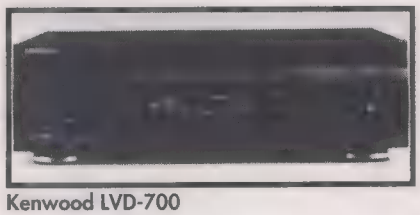
MITSUBISHI M-V8000
Combination LaserDisc Player. 3/5/8/12-inch compact and video discs; track/chapter search; eight second Intro Scan; 20-track programming; track/chapter search; on-screen display; repeat playback; auto-program editing; still-frame playback; strobe-motion playback; 2 video outputs; S-VHS output; digital/optical audio output; 2 sets of audio outputs; digital time base correction; digital frame memory; still pause; visual search; picture window programming; file function.


Pioneer LD-S2

Sharp MV-D100

Panasonic LX-1000


Pioneer CLD-M90


Kenwood LVD-700

Sony MDP-605

MITSUBISHI M-V6021
Combination LaserDisc Player. LD/CD/CDV; 3/5/8/12-inch discs; 20 track programming; track search; on-screen display.

PANASONIC LX-100
Multi Laser Disc Player; 3/5/8/12-inch discs; 425 lines horizontal resolution; MASH circuit; digital time base corrector; auto reverse function; still, slow, picture search; jog/shuttle dial on unit and remote; wireless remote; strobe; paint effects; elapsed time; track/chapter search; still frame; random play; chapter skip; chapter/track repeat; headphone jack; on screen display.

PHILIPS CDV400
Multi LaserDisc Player. 3/5/8/12-inch discs; 20 track/chapter programming; record edit function; 5-mode repeat; random play; CX noise reduction; auto music scan; 2-speed scan; S-video output; 42-key wireless remote.

PIONEER CLD-M90
MultiDisc Combi Player/CD Changer. 5-CD/LaserDisc player; auto digital level controller; individual disc volume output levels; CD hi-lite scan; computer-allocated program edit function; random play; CLV scan mode; color lock scan functions; last memory mode.

PIONEER LD-S2
LaserDisc Player. 8/12-inch discs; 425-line horizontal resolution; digital time base corrector; optical digital audio output; S-video jack; 20 chapter programming; track/chapter search; jog/shuttle wireless remote; visual intro scan; digital color noise reduction.

QUASAR LD9090
Multi Laser Disc Player. 3/5/8/12-inch discs; 20 programmable selections; track/

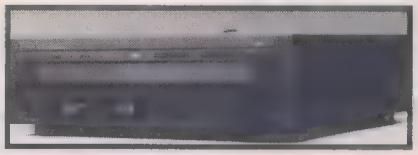
chapter search; on-screen display; headphone jack; S-video output; 425 lines horizontal resolution; headphone jack; wireless remote; programmed/ random playback.

SHARP MV-D100

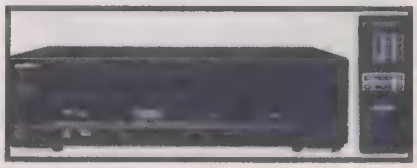
5-in-1 LaserDisc player with multi-disc changer. 3/5/8/12-inch compact and video discs; 3/5-inch multi-disc changer; 20-step random access programming; 8x oversampling; twin D/A converters; optical digital output; S-VHS output; 425 lines horizontal resolution; auto-edit; auto fade; auto level search; auto program search; time remaining, elapsed time, music schedule display; complete system remote.

SONY MDP-605

Combi Player. PLays both laser discs and compact discs; 2 S-Video outputs; gold-plated terminals; Dual Linear Converter System; dual scan mode shuttle control; remote control also has shuttle control; custom index memory.



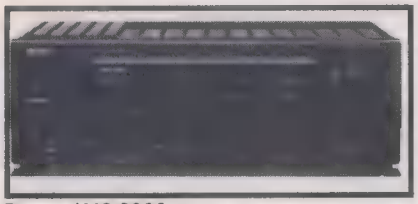
Mitsubishi M-V8000



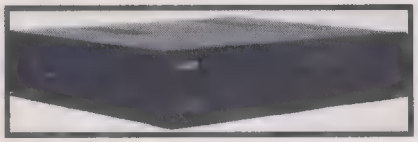
Quasar LD9090

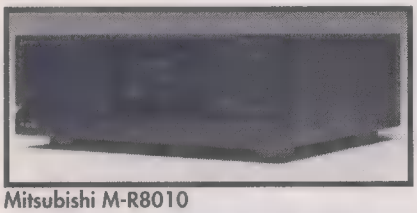
BRAND	MODEL	PRICE	TYPE	DISC SIZES	PROG	T/C	ANR	REM	HJ	OSD
CARVER	MD/V-500	$699.95	LD/CD/CDV	3/5/8/12	16	T/C	No	No	Yes	No
DENON	LA-2000	$700	LD/CD/CDV	3/5/8/12	20	T	No	No	No	Yes
	LA-3000	$1000	LD/CD/CDV	3/5/8/12	20	T	No	No	No	Yes
HITACHI	VIP-RX6EX	$629.95	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	Yes	Yes
KENWOOD	LVD-300	$599	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	Yes	Yes
	LVD-700	$979	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	Yes	Yes
MAGNAVOX	CDV-485	$699	LD/CD/CDV	3/5/8/12	20	T/C	No	No	Yes	No
	CDV-305	$549	LD/CD/CDV	3/5/8/12	20	T/C	Yes	Yes	No	No
MITSUBISHI	M-V6021	$899	LD/CD/CDV	3/5/8/12	20	T	No	No	No	Yes
	M-V8000	$1499	LD/CD/CDV	3/5/8/12	20	T	No	No	No	Yes
PANASONIC	LX-1000	$1400	LD/CD/CDV	5/8/12	20	T/C	No	No	No	No
	LX-101	$600	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	Yes	Yes
	LX-200	$850	LD/CD/CDV	5/8/12	20	T/C	No	No	No	Yes
PHILIPS	CDV600	$1029	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	No	Yes
	CDV500	$829	LD/CD/CDV	3/5/8/12	20	T/C	Yes	Yes	No	No
	CDV400	$599	LD/CD/CDV	3/5/8/12	20	T/C	Yes	Yes	No	No
PIONEER	LD-S2	$3500	LD/CDV	8/12	20	C	No	Yes	Yes	Yes
	CLD-M90	$700	LD/CD/CDV	3/5/8/12	24	T/C	No	Yes	Yes	Yes
	CLD-95	$2000	LC/CD/CDV	3/5/8/12	24	T/C	No	Yes	Yes	Yes
	CLD-31	$700	LD/CD/CDV	3/5/8/12	24	T/C	No	Yes	Yes	Yes
	CLD-3090	$1200	LD/CD/CDV	3/5/8/12	24	T/C	No	Yes	Yes	Yes
	CLD-2090	$800	LD/CD/CDV	3/5/8/12	24	T/C	No	Yes	Yes	Yes
	CLD-1090	$600	LD/CD/CDV	3/5/8/12	24	T/C	No	Yes	Yes	Yes
	CLD-990	$500	LD/CD/CDV	3/5/8/12	24	T/C	No	Yes	No	Yes
QUASAR	LD-500	$649.95	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	Yes	Yes
	LD9090	$899.95	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	Yes	Yes
REALISTIC	MD-100	$499.95	LD/CD/CDV	3/5/8/12	NA	NA	No	No	Yes	No
SAMSUNG	DV5100	$700	LC/CD/CDV	3/5/8/12	NA	NA	Yes	Yes	Yes	Yes
	DV5000	$549.95	LD/CD/CDV	3/5/8/12	NA	T/C	No	Yes	No	Yes
SHARP	MV-D100	$1499.95	LD/CD/CDV	3/5/8/12	20	NA	No	Yes	No	No
	MV-D2000	$750	LD/CD/CDV	3/5/8/12	20	T/C	No	Yes	No	No
SONY	MDP-605	$900	LD/CD/CDV	5/12	20	T/C	No	Yes	No	No
	MDP-333	$650	LD/CD/CDV	3/5/8/12	20	T/C	Yes	No	No	No
YAMAHA	CDV-1700	$699	LD/CD/CDV	3/5/8/12	15	T/C	No	Yes	No	No
ZENITH	LPD510	$649	LD/CD/CDV	3/5/8/12	20	T	No	Yes	Yes	Yes

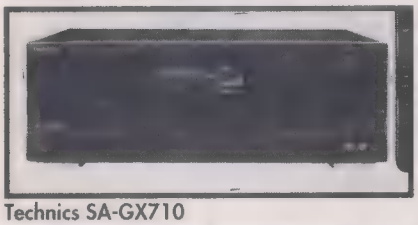
LEGEND — ANR: audio noise reduction; HJ: headphone jack; OSD: on-screen display; PROG: programmable tracks; REM: remote control; T/C: track or chapter search.

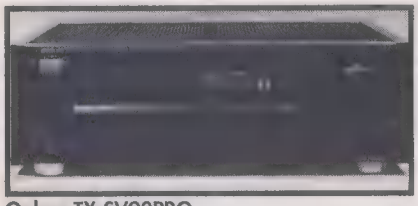

Denon AVC-3020

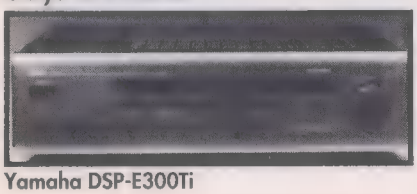
Kenwood KR-V9030


Lexicon CP-3


Mitsubishi M-R8010


Technics SA-GX710


Onkyo TX-SV90PRO


Yamaha DSP-E300Ti

ACOUSTIC RESEARCH X-07

A/V Receiver; 110 watts/channel into 4 ohms; video and stereo sound signal switching and dubbing; 75 watts per channel; seperate power supplies for each channel.

AUDIOSOURCE SS-THREE

Processor; 30 watts/channel, rear; 3 surround settings; setting modes: Dolby, Hall, Matrix, Pro-logic; subwoofer outputs. Features: center channel; switchable subwoofer crossover.

CARVER HR-742

A/V Receiver. Sonic Holography circuitry; 80 watts per channel power; 30-preset AM/FM tuner; 75-ohm coax input switch that allows the user to select between the TV antenna input and the output of a cable TV box; "sleep" switch.

DENON AVC-3020

A/V Surround Amplifier; 4-mode Dolby Pro-Logic; Dolby Time Link digital delay system; 5 additional surround modes: Hall, Simulated, Live, Synthetic, Spectarea; 80 front watts per channel; 35 center and rear watts per channel; S-VHS inputs; Cinema Sound Equalizer; Audio Visual Sound Effect Circuit; 5 audio inputs; 5 video inputs; superimpose function; 5 System Call keys can be programmed to perform multiple functions with one key.

FOSGATE-AUDIONICS DSL-3

THX Surround Processor; Digital Servo Logic steering logic; THX, Dolby Pro Logic modes; 10 surround settings; 6 audio inputs; 6 video inputs; split stereo surround outputs in selected music modes; stereo digital time delays; stereo subwoofer outputs; microprocessor operating system; panorama control allows adjustment of stereo stage width; built-in pink noise generator; automatic adjustment of input balance.

JVC RX-903VBK

A/V Receiver; 100 watts per channel; surround sound; programmable remote control; Dolby Pro Logic surround; 3 video inputs; S-video terminal; 7-band graphic equalizer; random preset memoery for 40 AM/FM stations; auto memory; preset scan; station name display; florescent display.

KENWOOD KR-V9030

A/V Receiver. 6 simulated sound environments; Dolby Pro-Logic Surround Sound Decoder; 6 DSP sound field presets; 6 surround system memory presets; "learning" remote control; Auto Input Balance for Dolby; 3 sets of video inputs and outputs (1 S-Video); 7 audio inputs; video dubbing; test tone generator; 130 watts per channel (2 channel stereo mode); 75 watts per channel (left, right, and center; 15 watts per channel (rear); 5 channel surround sound mode.

LEXICON CP-3

THX Processor. 45 surround settings; 4 audio inputs; 3 video inputs; Pro Logic.

MITSUBISHI M-R8010

A/V Receiver; 125 watts per channel; 25 watts per channel surround power; 3 ambient modes; Dol Pro Logic surround; matrix surround; 6 A/V components.

ONKYO TX-SV90 PRO

A/V Receiver; 110 watts per channel; 100 watts/channel, front in surround mode; 30 watts/channel, rear; 3 surround settings; setting modes: Dolby, Hall, Matrix, Pro-logic; subwoofer outputs; 4 video inputs; 5 audio inputs; universal remote control. Features: front-panel camcorder inputs.

PHILIPS FR980

A/V Receiver. Built-in Dolby Surround Decoding and Amplification; 125/15 watts; 7-band graphic EQ with acoustic memory; motorized main volume control; 50-key universal remote can control 10 sources and learn codes from other remotes; "Record Out" switch-parallel recording; video split screen with video enhancement switch; surround mode switch featuring matrix, spatial, stereo, mono, and Dolby Surround. Weight: 35 lbs. Dim: 16.8 x 5.8 x 15.2.

SURROUND SOUND PROCESSORS

BRAND	MODEL	PRICE	TYPE	FRONT W/CH	REAR W/CH	SURROUND SETTINGS	AUDIO INPUT	VIDEO INPUTS	PRO-LOGIC
AUDIO SOURCE	SS-One	$200	Processor	30	30	3	NA	NA	No
	SS-Two	$250	Processor	30	30	3	NA	NA	No
	SS-Three	$399	Processor	30	30	3	NA	NA	Yes
ARCHER	Surround Sound	NA	Amplifier	20	10	1	3	1	No
CARVER	DPL-33	$449.95	Processor	25	15	2	NA	NA	Yes
	AV-63	$529.95	Amplifier	65	NA	NA	NA	NA	No
DENON	AVC-3020	$1000	Amplifier	80	35	9	9	5	Yes
	AVC-1000	$700	Amplifier	55	25	7	10	5	Yes
FISHER	ASR-975	$550	Amplifier	20	20	4	6	4	Yes
FOSGATE-AUDIONICS	DSL ONE	$699	Processor	NA	40	9	2	NA	No
	DSL TWO	$1299	Processor	NA	40	9	2	NA	Yes
	DSL THREE	$2200	THX Processor	NA	NA	10	6	6	Yes
HUGHES	AK-100	$399	SRS Processor	—	—	—	—	1	No
LEXICON	CP-1	$1395	Processor	—	—	24	3	—	Yes
	CP-2	$895	Processor	—	—	3	—	—	Yes
	CP-3	$2895	THX Processor	—	—	45	4	3	Yes
LUXMAN	F-116	$950	Processor	NA	NA	2	NA	NA	Yes
	F-114	$800	Processor	50	50	4	NA	NA	Yes
MEMOREX	DS-10	NA	Amplifier	5	5	1	2	1	No
ONKYO	A-SV810PRO	$1099.95	Amplifier	85	35	9	10	6	Yes
	ES-600 PRO	$399.95	Processor	50	20	4	NA	NA	Yes
	A-RV401	$399.95	Amplifier	100	NA	NA	7	2	No
PANASONIC	SY-DS1	$250	Processor	NA	NA	2	NA	NA	No
PHILIPS	AV100	$2000	Pre-amplifier	100	50	3	9	5	Yes
PIONEER	SP-91D	$1000	Processor	NA	NA	8	1	NA	Yes
	SP-700D	$735	Processor	NA	NA	8	1	NA	Yes
PROTON	SD-1000	$1000	Processor	—	—	3	4	—	No
SANSUI	AV-7000	$1000	Amplifier	70	35	8	5	4	Yes
SHERWOOD	ES-1280	$189.95	Proceesor/Amp	—	20	3	NA	NA	No
SONY	TA-E1000ESD	$1000	Pre-amplifier	NA	NA	2	9	9	Yes
SSI	System 4500	$599	Processor	NA	NA	5	4	4	No
	System 3000	$349	Processor/Amp	—	25	4	1	NA	Yes
	System 3200	$299	Processor	NA	NA	4	1	NA	Yes
	Powerflex V	$599	Amplifier	40/80	40/80	NA	5	NA	No
	System 1000	$199	Processor/Amp	—	20	3	1	NA	No
	System 4000II	$549	Processor/Amp	—	45	5	4	4	No
TECHNICS	SH-AV40	$220	Processor	20	20	3	1	3	No
YAMAHA	DSR-70 PRO	$249	Processor	—	—	2	1	—	Yes
	DSP-A1000	$1499	Amplifier	80	25	35	10	5	Yes
	DSP-A700	$1099	Amplifier	60	15	12	10	5	Yes
	DSP-E300	$799	Amplifier	15	15	12	10	5	Yes

** NOTE: All information and suggested retail prices are provided by manufacturers.*

A/V RECEIVERS

BRAND	MODEL	PRICE	TUNER PRESETS	FRONT W/CH	REAR W/CH	SURROUND (AMBIENCE)	AMBIENT MODES	VIDEO INPUTS	AUDIO INPUTS	REMOTE TYPE
ACOUSTIC RESEARCH	X-07	$799	NA	110	75	No	—	2	2	wireless
CARVER	HR-742	$629.95	30	80	—	No	—	3	6	universal
	HR-732	$499.95	30	60	—	No	—	3	6	universal
DENON	AVR-610	$600	NA	55	20	Yes	6	3	6	NA
	AVR-810	$750	16	80	35	Yes	7	5	9	programmable
	AVR-1010	$1000	16	100	35	Yes	7	5	9	programmable
FISHER	RS616	$299.95	30	50	—	No	—	2	6	dedicated
	RS636	$399.95	30	100	20	Yes	1	3	5	dedicated
	RS646	$499.95	30	120	20	Yes	3	NA	NA	dedicated
JVC	RX-905VTN	$1100	40	100	15	Yes	5	3	5	programmable
	RX-805VTN	$620	40	120	12	Yes	3	2	4	programmable
	RX-500VTN	$380	40	80	—	Yes	3	2	4	programmable
KENWOOD	KR-V9030	$979	20	130	15	Yes	6	3	7	programmable
	KR-V8030	$599	20	120	15	Yes	3	2	6	programmable
	KR-V7030	$499	20	100	15	Yes	3	2	6	programmable
	KR-V6030	$399	30	100	15	Yes	3	2	6	programmable
LUXMAN	R-361	$1000	10	100	—	No	—	7	10	dedicated
	RV-371	$1400	10	70	50	Yes	2	7	10	dedicated
	TP-117	$1250	NA	NA	—	No	—	4	7	NA
MAGNAVOX	MRB200	$349.95	30	100	100	Yes	1	1	3	universal
MITSUBISHI	M-R6030	$799	NA	80	20	Yes	NA	6	6	wireless
	M-R7020	$1049	NA	80	20	Yes	NA	6	6	programmable
	M-R8010	$1399	NA	125	25	Yes	3	6	6	programmable
ONKYO	TX-906	$499.95	40	80	12	Yes	2	2	6	universal
	TX-SV50PRO	$630	30	75	30	Yes	3	4	8	universal
	TX-SV70PRO	$850	30	90	30	Yes	3	4	8	universal
	TX-SV90PRO	$1100	20	110	30	Yes	4	4	5	universal
PHILIPS	FR60	$399.95	30	170	—	No	—	3	5	universal

A/V RECEIVERS (continued)

BRAND	MODEL	PRICE	TUNER PRESETS	FRONT W/CH	REAR W/CH	SURROUND (AMBIENCE)	AMBIENT MODES	VIDEO INPUTS	AUDIO INPUTS	REMOTE TYPE
PIONEER	VXS-95	$1350	30	125	40	Yes	5	6	5	programmable
	VXS-51	$600	30	100	18	Yes	4	3	4	programmable
	VSX-D1S	$1350	30	130/70	40/50	Yes	5	6	5	programmable
PROTON	AV-646A	$700	27	60	—	No	—	2	2	A/V
SANSUI	RZ-9500AV	$769.95	30	100	30	Yes	7	3	4	programmable
	RZ-7500AV	$499.95	30	100	20	Yes	4	3	4	system
	RZ-5500AV	$399.95	30	70	70	Yes	1	3	4	universal
	R-950AV	$330	30	105	105	Yes	6	3	4	universal
SCOTT	RS 1250	NA	24	125	NA	Yes	3	1	4	wireless
	RS 550	NA	NA	55	NA	Yes	NA	1	3	NA
SHARP	SA-R56AV	$390	30	55	—	No	—	2	NA	wireless
SHERWOOD	RV-5010R	$300	30	85	15	Yes	3	3	4	universal
SONY	STR-AV1070	$600	NA	120	30	Yes	10	3	5	NA
	STR-AV970	$480	NA	100	30	Yes	10	3	5	NA
TECHNICS	SA-GX910	$899.95	30	125	30	Yes	5	4	5	learning
	SA-GX700	$549.95	24	100	20	Yes	NA	2	4	learning
	SA-GX500	$379.95	NA	80	30	Yes	NA	2	4	universal
	SA-GX710	$629.95	30	125	20	Yes	NA	4	5	universal
	SA-GX505	$399.95	30	110	10	Yes	NA	2	4	universal
VECTOR RESEARCH	VRX-5200R	$349	20	50	—	Yes	1	3	5	22-function
YAMAHA	RX-750	$529	40	80	—	No	—	2	5	system
	RX-550	$399	40	60	—	No	—	NA	5	system
	RX-V1050	$1199	40	110	30	Yes	4	4	8	programmable
	RX-950	$899	40	120	—	No	—	2	5	universal
	RX-V850	$799	40	80	25	Yes	4	3	4	programmable

** NOTE: All information and suggested retail prices are provided by manufacturers.*

BUYER'S GUIDE VIDEO BEST

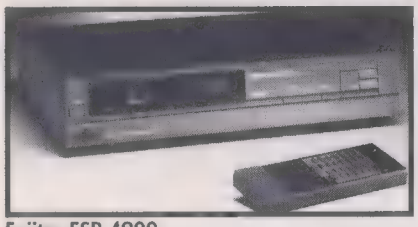
PIONEER VSX-D1S

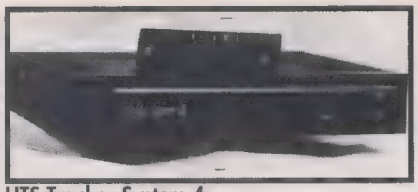
A/V Receiver; Dolby Pro-Logic Surround; 5 digitally simulated sound fields; multi-room/source capable with optional MR-100; jog dial; 130 watts per channel; switchable front and rear power for 70W, 70W, 70W configuration; subwoofer output; 2 center mono outputs; 6 video inputs; video adapter loop; 5 audio inputs; preset of 30 FM/AM stations; A/V inputs for VCR-3 on front; sleep timer.

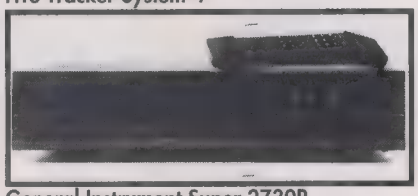
YAMAHA DSP-E300

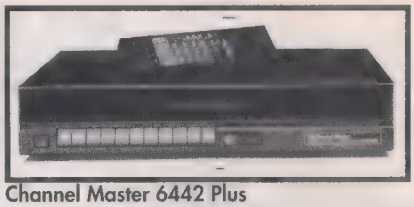
A/V amplifier. Five channels of amplification; 12 preset ambinet sound programs including Dolby Pro Logic; test tone generator; Center channel: normal, phantom; on-screen display.

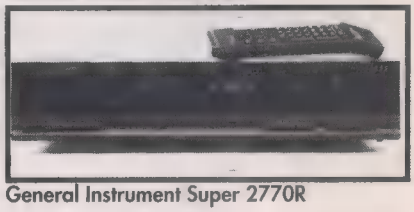
SATELLITE RECEIVERS


Fujitsu FSR 4900


HTS Tracker System 4


General Instrument Super 2730R


Channel Master 6442 Plus


General Instrument Super 2770R

CHANNEL MASTER 6442 PLUS

Satellite receiver/descrambler. C and Ku band compatible; on-screen display; 99 factory preset favorite channels; VCR timer; IR remote control; VCII PLUS functions; complete parental control.

CHAPARRAL MONTEREY 70

Satellite receiver/descrambler. C and Ku band compatible; IR/UHF remote control; automatic dish tuning; source switching; internal A/B switching; internal TI filter; surround sound; 100 programmable favorite channels.

CHAPARRAL MONTEREY 90

Satellite receiver/descrambler. C and Ku band compatible. IR/UHF remote control; automatic dish tuning; internal A/B switch; internal TI filter; picture-in-picture; surround sound; 100 programmable favorite channels.

ECHOSPHERE ECHOSTAR 510

Satellite receiver/descrambler. C and Ku band compatible; built-in antenna positioner; UHF remote control; 25 favorite channels; on-screen display; built-in VCII PLUS descrambler; parental lock-out; external audio and video switching; direct satellite access; programmable video noise reduction; optional TI filter.

ECHOSPHERE ECHOSTAR 710

Satellite receiver/descrambler. C and Ku band compatible; automatic C/Ku band tuning; 8-event VCR timer; integrated VideoCipher II PLUS descrambler module; direct satellite access; 100 favorite video programs; 100 favorite audio programs; built-in antenna positioner; UHF remote control; optional VideoPal integrated order recorder.

FUJITSU GENERAL FSR 4700

Satellite receiver/descrambler. C and Ku band compatible; built-in antenna positioner; built-in VideoCipher II PLUS descrambler; built-in Videopal for pay-per-view; on-screen display; built-in TI filter; 100 favorite channel selections; 20-channel parental lock-out; full-function IR remote; optional UHF remote.

FUJITSU GENERAL FSR 4900

Satellite receiver/descrambler. C and Ku band compatible; C/Ku band automatic switching; built-in antenna positioner; 40 satellite position memory; East/West antenna control from remote; UHF/IR remote control; VideoCipher RS descrambler ready; built-in Videopal for pay-per-view; on-screen scrolling; VCR timer programmable; 100 pre-programmed/ re-nameable favorite channels; built-in TI filter.

GENERAL INSTRUMENT 2730R

Satellite receiver/descrambler. C and Ku band compatible; C/Ku switching; parental supervision; infrared remote control; 32 satellite position memory; 150 favorite channel recall; source switching; A/B switching; built-in antenna positioner; built-in TI filter; 1-year/6-event timer.

GENERAL INSTRUMENT 2770R

Satellite receiver/descrambler. C and Ku band compatible; parental supervision; infrared remote control; 32 position satellite position memory; internal C/Ku switching; 150 favorite channel recall; source switching; built-in antenna positioner; built-in AnyWhere UHF remote control; built-in VIDEOpal order recorder; built-in TI filter; 1-year/6-event timer.

HTS TRACKER SYSTEM 4

Satellite receiver/descrambler. Standard UHF remote control; narrow bandwidth tuner; on-screen graphics.

HTS TRACKER 9

Satellite receiver/descrambler. C and Ku band compatible; 100 favorite audio/video channels; programmable video noise reduction; on-screen graphics; UHF remote control; automatic C/Ku band switching; parental lock; VCR timer; automatic dish and polarity peaking.

PANASONIC CRD-4500

Satellite receiver/descrambler. C and Ku band compatible; UHF remote; VideoCipher II PLUS descrambler; on-screen display; parental lock; favorite channel memory; direct access satellite and channel selection.

PANASONIC PS-700-EX

Satellite receiver/descrambler. C and Ku band compatible; built-in VideoCipher II PLUS descrambler; Dolby Surround System; built-in VCR timer; direct satellite access with preset program names; memory for 18 video and 9 audio favorite channels; built-in programmable TI filter.

TOSHIBA TRX-2200

Satellite receiver/descrambler. C and Ku band compatibility; IR/UHF remote control; automatic dish tuning; source switching; internal A/B switch; internal TI filter; 20 programmable favorite channels.

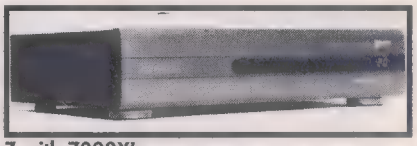
ZENITH 2500

Satellite receiver/descrambler. C and Ku band compatible; UHF remote; source switching; parental control; on-screen menus; programmable VCR timer; 60 favorite program memory; VCII PLUS descrambler; 50 satellite memory.

ZENITH 7000XL

Satellite receiver/descrambler. C and Ku band compatibility; 200 favorite program memory; VCR timer; on-screen menus; VCII PLUS descrambler; 50 satellite memory; parental control; built-in TI filter; built-in antenna controller; UHF remote.

Echosphere Echostar 710



Zenith 7000XL

BRAND	MODEL	PRICE	REMOTE	COMP	ADT	SS	A/B	IF	P-I-P	SURROUND (AMBIENCE)	# of PFC
CHANNEL MASTER	6442 PLUS	$1069	IR	C, Ku	Yes	Yes	Yes	No	No	No	99
CHAPARRAL	Monterey 30	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	No	No	100
	Monterey 50	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	No	No	100
	Monterey 70	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	No	Yes	100
	Monterey 90	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	Yes	Yes	100
ECHOSPHERE	EchoStar 310	NA	IR	C	No	No	No	No	No	No	NA
	EchoStar 410	NA	IR	C	Yes	No	No	No	No	No	NA
	EchoStar 510	NA	UHF	C, Ku	Yes	Yes	Yes	No	No	No	25
	EchoStar 710	NA	UHF	C, Ku	Yes	Yes	Yes	No	No	No	100
FUJITSU GENERAL	FSR 4900 IRD	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	No	No	100
	FSR 4700 IRD	NA	IR	C, Ku	Yes	No	Yes	Yes	No	No	100
	FSR 4500 IRD	NA	IR	C, Ku	Yes	No	Yes	Yes	No	No	100
GENERAL INSTRUMENT	Super 2400R	NA	IR	C, Ku	No	No	Yes	No	No	No	40
	2700R	NA	IR	C, Ku	Yes	No	Yes	Yes	No	No	10
	2710R	NA	IR	C, Ku	Yes	No	Yes	Yes	No	No	60
	2720R	NA	IR/UHF	C, Ku	Yes	No	Yes	Yes	No	No	150
	Super 2730R	NA	IR	C, Ku	Yes	Yes	Yes	Yes	No	No	150
	Super 2770R	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	No	No	150
HTS	Tracker Sys. 4	NA	UHF	C, Ku	Yes	No	Yes	Yes	No	No	NA
	Tracker 9	NA	UHF	C, Ku	Yes	No	Yes	No	No	No	100
	Tracker V	NA	UHF	C, Ku	Yes	No	Yes	Yes	No	No	NA
	Tracker VIII+	NA	UHF	C, Ku	Yes	No	Yes	Yes	No	No	NA
	Tracker X	NA	UHF	C, Ku	Yes	No	Yes	Yes	No	No	NA
PANASONIC	PS-700-EX	NA	UHF	C, Ku	Yes	Yes	Yes	Yes	No	Yes	18
	CRD-4500	NA	UHF	C, Ku	No	No	Yes	No	No	Yes	NA
TOSHIBA	TRX-1800	NA	IR/UHF	C, Ku	Yes	No	Yes	Yes	No	No	20
	TRX-2200	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	No	No	20
	TRX-80	NA	IR	C, Ku	Yes	No	Yes	No	No	No	20
	TRX-2000	NA	IR/UHF	C, Ku	Yes	Yes	Yes	Yes	No	No	20
ZENITH	2500	$1499	UHF	C, Ku	Yes	Yes	Yes	No	No	No	60
	7000XL	$1799	UHF	C, Ku	Yes	Yes	Yes	Yes	No	No	200

LEGEND — COMP: compatibility; ADT: automatic dish tuning; A/B: antenna switching; IF: internal filter; # of PFC: number of programmable favorite channels; SS: source switching. C: C-band; Ku: Ku-band.

TV/VCRs & TV/VCPs

BRAND	MODEL	PRICE	TYPE	HEADS	FORMAT	SCREEN SIZE	CHANNELS	DAY/EVENT	MTS
EMERSON	VT1320	$709.95	TV/VCR	2	VHS	13	181	28/4	No
	VT1920	$839.95	TV/VCR	2	VHS	19	181	28/4	No
GOLDSTAR	KMV-2102A	$849.95	TV/VCR	2	VHS	20	155	365/8	Yes
	KMV-9012A	$699	TV/VCR	2	VHS	19	110	14/8	No
INSTANT REPLAY	BT 82 IT/CM	$1595	TV/VCR	2	VHS	13	155	31/4	No
	BT20IT	$1495	TV/VCR	2	VHS	20	155	31/4	No
	BT80CM	$1295	TV/VCR	2	VHS	13	155	31/4	No
	BT20CM	$1495	TV/VCR	2	VHS	20	155	31/4	No
	BT 80 IT	$1295	TV/VCR	2	VHS	13	155	31/4	No
MAGNAVOX	CRM202	$649.95	TV/VCR	2	VHS	20	155	30/4	No
	CRM132	$599	TV/VCR	2	VHS	13	155	30/4	No
PANASONIC	PV-M1328	$599	TV/VCR	2	VHS	13	155	30/4	No
	PV-M2021	$629	TV/VCR	4	SVHS	20	155	30/4	Yes
	PV-M1321	$549	TV/VCR	2	VHS	13	155	30/4	No
	PV-M2028	$679	TV/VCR	2	VHS	20	155	30/4	No
	PV-M2049	$849	TV/VCR	4	VHS	20	155	30/4	No
	PV-M2071	$999	TV/VCR	4	VHS	20	155	30/4	Yes
	PV-M2730	$1299	TV/VCR	4	VHS	27	155	30/4	Yes
	PV-M2050	$1099	TV/VCR	4	VHS	20	155	30/4	No
	PV-MS2750	$1699	TV/VCR	4	SVHS	27	155	30/4	Yes
QUASAR	SXV1420	$899.95	TV/VCR	4	VHS	20	155	31/4	Yes
	VV1213	$599.95	TV/VCR	2	VHS	13	155	31/4	No
	VV1220	$699.95	TV/VCR	2	VHS	20	155	31/4	No
SAMSUNG	VM3003	$599.95	TV/VCR	2	VHS	13	110	14/4	No
	VM6003	$899.95	TV/VCR	2	VHS	19	110	14/4	No
	VM7003	NA	TV/VCR	2	VHS	20	110	14/4	No
	VM3105	$599.95	TV/VCR	NA	VHS	13	155	365/8	No
	VM6105	$749.95	TV/VCR	NA	VHS	19	155	365/8	No
	VM7105	$799.95	TV/VCR	NA	VHS	20	155	365/8	No
SUPRA	SV-90	$499	TV/VCP	2	VHS	13	NA	NA	No
SYLVANIA	VCT200	$649.95	TV/VCR	2	VHS	20	155	30/4	No
SYMPHONIC	TVCR 13FHI	NA	TV/VCR	NA	VHS	13	110	7/2	No
	TVCR 19FI	NA	TV/VCR	NA	VHS	19	NA	14/4	No
TEN-LAB	13 COMBO	$1195	TV/VCR	2	VHS	13	155	30/4	No
	20 COMBO	$1345	TV/VCR	2	VHS	20	155	30/4	No
	S20	$2100	TV/VCR	4	VHS	20	155	30/4	No
	20D	$1595	TV/VCR	4	VHS	20	155	30/4	No
	S27	$3200	TV/VCR	4	VHS	27	155	30/8	Yes
	27 COMBO	$2495	TV/VCR	4	VHS	27	155	30/8	Yes
TOTEVISION	CB1300	$701.95	TV/VCR	2	VHS	13	110	14/4	No
	CB1550	$733.95	TV/VCR	NA	VHS	13	110	NA	No
	CB1950	$893.95	TV/VCR	2	VHS	19	110	14/8	No

** NOTE: All information and suggested retail prices are provided by manufacturers.*

PERSONAL VIDEO

BRAND	MODEL	PRICE	TYPE	HEADS	FORMAT	SCREEN SIZE	COLOR	AC/DC/Battery	WEIGHT
CASIO	VF-7000	$1299	TV/VCR	NA	VHS	4	Yes	DC/Battery	NA
	BVF-3000	$1399	TV/VCR	NA	VHS	3.3	Yes	AC/DC/Battery	6.6
EMERSON	VC095N	$75995	TV/VCP	2	VHS	9	Yes	AC/DC	28
GOLDSTAR	GVT-9100M	$499	TV/VCP	2	VHS	5	Yes	AC/DC	22
HITACHI	VT-LC50	$1699.95	TV/VCR	2	VHS Hi-Fi	5	Yes	AC/DC/Battery	7.5
	MCM5	$1500	Car Video Sys	4	VHS Hi-Fi	5	Yes	Car Battery	2.3
	VPF1	$1500	Car Video Sys	4	VHS Hi-Fi	5	Yes	Car Battery	4.6
INSTANT REPLAY	LCD1	$895	TV/VCP	2	VHS	2.7	Yes	AC/DC	8
JVC	SC-F007U	$2499.95	Components	4	VHS-C	3	Yes	Car Battery	1.2
	HRP1U	$1499.95	TV/VCR	4	VHS Hi-Fi	3	Yes	AC, Battery, Car	NA
MAGNAVOX	CRM091AT	NA	TV/VCR	2	VHS	9	Yes	AC/DC	24.2
PANASONIC	PV-M429	$1299	TV/VCR	2	VHS	4	Yes	AC/DC/Battery	NA
	PV-M749	$1049	TV/VCR	4	VHS	7	Yes	AC/DC	16.5
REALISTIC	Model 11	$499.95	TV/VCP	NA	VHS	9	Yes	AC/DC	NA
SHARP	VC-V540U	$1899.95	TV/VCR	NA	VHS	4	Yes	AC/DC	NA
SHINTOM	VP-5000N	NA	TV/VCP	NA	VHS	5	Yes	NA	26.7
SONY	GV-8	$1300	TV/VCR	NA	8mm	3	Yes	AC/DC/Battery	2.5
	GV-9	$1500	TV/VCR	NA	8mm	4	Yes	Battery	2.75
	GV-200	$1200	TV/VCR	2	8mm	4	Yes	AC/DC/Battery	2.5
	GV-300	$1400	TV/VCR	2	8mm Hi Fi	4	Yes	AC/DC/Battery	2.5
	EV-DT2	NA	TV/VCR	NA	8mm Hi Fi	5	Yes	AC/DC	19
SUPRA	SV-80	NA	TV/VCP	2	VHS	5.5	Yes	AC/DC	NA
TOTEVISION	CB7002	$1049.95	TV/VCR	NA	VHS	7	Yes	AC/DC	18.7
	CB9002	$1059.95	TV/VCR	NA	VHS	9	Yes	AC/DC	23.1
	CB7000	$612.95	TV/VCP	NA	VHS	5	Yes	AC/DC	20.5
TEN-LAB	Cruiser	$1995	TV/VCR	4	VHS	7	Yes	NA	NA

** NOTE: All information and suggested retail prices are provided by manufacturers.*

EMERSON VC095N

TV/VCP. VHS. 9-in. portable color TV w/built-in 2-head VCP; AC/12 volt DC power operation; electronic tuning; 12 station presets; auto on, play, rewind, replay, eject and power-off; freeze frame; 7X forward/reverse search; 12 LED channel indicators; A/V in/outs. Weight: 28 lbs. Dim: 14 in. H x 11.5 in. W x 14 in. D.

HITACHI VT-LC505

TV/VCR. VHS. Hi-Fi; 2 video heads; 5-in. color LCD pop-up screen; 115,000 pixels; built-in speaker; headphone jack; A/V in/outs; 2 hour battery w/ charger; 3-way power: AC, DC, battery. Weight: 7.5 lbs.

INSANT REPLAY "THE TRAVELER" LCD1

TV/VCP. VHS. NTSC, PAL, SECAM playback; 2.7in. LCD screen; 110v or 220v operation, and 12v DC operation; outputs signal to most NTSC TV monitors and TVs.

PANASONIC PV-M429

"A/V Pocket Watch" TV/VCR; 4-inch LCD screen; full size VHS recording; built-in speaker; audio output jacks. Dim: 10 1/2 x 3 3/4 x 8 1/2.

SONY GV-9

Video Walkman TV/VCR. 8mm format; 4-in. LCD screen; 1-day/1-event programmability; VHF/UHF TV tuner; NP-77 rechargeable battery allows approx. 2 hrs. of play. Weight: 2 lbs. 14 oz. (w/o battery & tape).

TEN-LAB CRUISER

TV/VCR; 7-inch color monitor; 4-head VHS VCR; NTSC, PAL, SECAM playback; on-screen display; freeze frame; frame advance; shuttle search; side loading system; external speaker jack; unified wireless remote.

BUYER'S GUIDE VIDEO BEST

AMBICO

V-0629 ..... $69.95
Video Enhancer/Stereo Audio Mixer. Adds narration and background music to video; 3 audio inputs w/individual volume control; mix and fade between music, narration and audio portion of video; video signal booster; microphone included.

V-0635 ..... $149.95
Video editor. 2 inputs; individual volume slide controls; master volume control; earphone jack; cut switch; A/V fade; video enhancer; bypass switch for comparison of original and enhanced versions; cables included.

ARKON

OmniTrac MS-2000 ..... $149.95
Stereo/mono mixing system. Adds to or replaces video soundtrack; mixes 2 music sources and a live voice over; shielded metal cabinet; stereo headphone monitor jack; stereo/mono capability.

AZDEN

VE-100. ..... $450
Video Editor. Creates up to 100 scene (200 cuts); 3 frame accuracy; time codes are inserted automatically; requires one deck w/infrared remote capability; display screen; preview mode; audio fader.

VPC-10 ..... NA
Video Production Center. Compatible w/ all systems; 2 inputs; 2 outputs; signal processor w/separate slide controls for brightness, contrast, color saturation; joystick-controlled color generator; paint box; split screen; venetian blind, curtain and mosaic effects; coloring; mixing; positive/negative switching.

AVS-20 ..... $139.95
A/V selector. Switching/dubbing capabilities; compatible w/all formats 4 video inputs; front panel inputs; mic mixing input; narration.

CANON

VE-100 ..... NA
Video Editor. 4-scene auto-assemble memory; learns infrared commands for two video decks; assembly timing adjustment; built-in 12-hour clock; 3-minute memory backup.

NADY

MCM400 ..... $69.95
Portable Camcorder Mic Mixer. Mixes audio sources while shooting; designed for use w/Nady boom mic and wireless systems; incorporates narrator headset for voice overs; unit clips onto user's belt or camcorder strap; allows mixing of 2 external mic inputs and the narrator headset; auxiliary mic input.

NUMARK

VAM-2000 ..... NA
Digital Video/Audio Mixer. 3 inputs; dissolves; fades; wipes; digital strobes; video beat freezes; scene cuts; audio mixes; manual or automatic A/B roll editing; T-bar fader; built-in color correction adjustment controls; built-in background color generator; joystick controller; 3 program outputs; video loop inputs and outputs.

OLYMPUS

WEC-100 ..... $499.95
Video Editing Controller. VCR deck control functions; scene memory display; edit mode indicators; mark cut-in/cut-out button; A/V dub enable button; source and edit VCR function; preview button.

PANASONIC

WJ-AVE5 ..... $1800
Digital A/V Mixer. 96 wipe patterns; still; mosaic; paint; picture-in-picture; wipe size is selectable; optional WJ-TTL5 character generator; digital synchronizer; mixing of Y/C (S-Video) signals w/other video signals; built-in audio mixer; 3 stereo inputs; audio level meter.

PANASONIC INDUSTRIAL

WJ-MX10 ..... $3000
Audio/Video Mixer. Built-in audio mixer; frame synchronizer; fade to 7 background colors; titler inputs; still, strobe, mosaic and paint special effects.

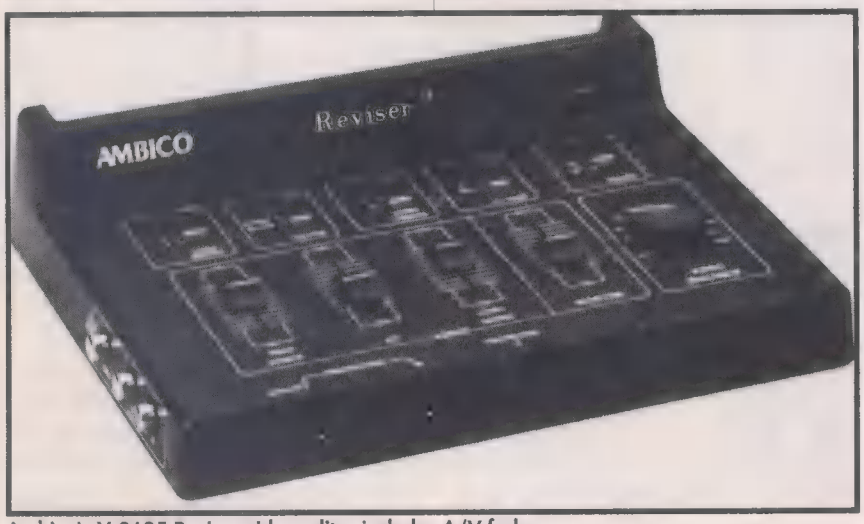
SANSUI

AV-77 ..... $400
Audio/Video Processor. Inputs for 4 stereo video sources; inputs for 2 audio sources; front panel terminals for camera, VCR B; direct video and RF outputs. Features: dbx noise reduction; simulated stereo; full dubbing facilities; audio dubbing; audio/video fader; special effects generator; video sharpness, detail controls; vertical/horizontal wipe controls.

SIMA

SoundMixer $99.95
Adds narration and background music to video. Connects between camcorder and VCR; sliding volume controls; headphone jack connections; separate monitor level control; 2 omnidirectional mics included.

Ed/it 2 ..... $179.95
Mini-editor. Audio mixer; audio dubbing; voice over insertion; background music dubbing; hi-fidelity mic included; 2 inputs; automatic 3-second fade.



Ambico's V-0635 Reviser video editor includes A/V fade.

Pro Ed/it 3 ..... $299.95
Video Processing Center. Automatic touch-button audio and video fades; audio mixing; hi-fi mic included; built-in color processing; slide controls for color intensity, tint and detail adjustment; video enhance boost; two switchable input sources; dual outputs.

SONY

RM-E700 ..... $750
Video editing controller. Compatible w/ 8mm, Beta, VHS decks; programmed editing for up to 8 scenes; dual shuttle rings; function keys for master and slave decks; tilting: 12 characters per line, 4 lines in English, European languages; 2-4 page digital superimposition/hand-written titles/graphics; scroll/reverse function; preview function.

TAMRON

Fotovix Video Editor II ..... NA
Video Editor. Crops, masks and edits still pictures on videotape; connects to Fotovix; fade-in/fade-out; wipe effects; 3 preset frames corresponding to standard photo paper sizes; frames can be set for vertical or horizontal format; free framing available; choice of six mask colors; S-video terminal; composite video terminal.

TOSHIBA

XB-100 ..... $949
Audio/Video Digital Controller. Digitally processes all modes; 10 audio inputs; 4 video inputs; built-in digital sound processor w/Dolby Surround; 125 w/ch stereo — 50w/ch in surround sound.

VANGUARD

VA-203 ..... NA
Audio/Video Editor. Combines functions of sound mixer, enhancer, selector; mic, music and VCR audio inputs; VTR input selector; left and right channel VU meters; 9V DC adaptor, RCA cables included.

VIDEONICS

ProED $1499
Computerized half-inch video editing system. Edit controller; titler; special effects/graphic generator; VHS or Super VHS; real-time editing; on-screen script list; automatic assembly editing; built-in graphics, titles and special effects; 64 colors; audio dubbing; built-in help function.

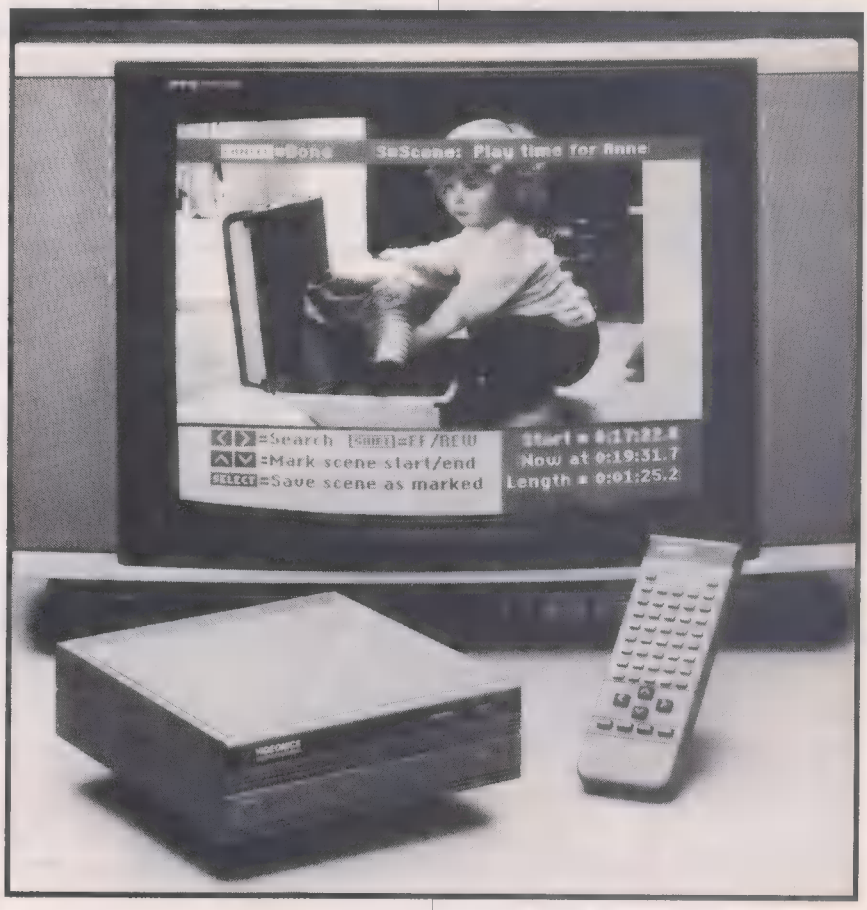
DirectED Plus $599
Video editing, titling and special effects system. Built-in video computer; on-screen video storyboard; titles and backgrounds come in 64 colors; on-screen menus; help key; operates w/monitor, and VCR w/ wireless remote, playback deck; compatible w/all formats.

VIDICRAFT

Vidimate 300S ..... NA
Audio/video mixer/processor. VHS, SVHS, VHS-C, Beta, & 8mm compatible; runs 6 VCR's simultaneously, 2 SVHS and 4 VHS; split screen function; video noise reduction system.

SegEd 3000 ..... $1000
Editing system. Genlocks dissimilar decks; audio mixing; audio equalization; A/B dissolves with live or taped sources; color backgrounds; color bar generators; auto select; fades; wipes; mosaics; strobe; freeze frame.

Sony's RM-E700 video editing controller is compatible with several types of VCRs. ▶ Videonics' DirectED Plus computerized video editing system. ▼



BUYER'S GUIDE VIDEO BEST

AMBICO

V-0300 ..... $25
Special Effects Generator. Edits and mixes any two video sources with cuts, fades, and various wipe patterns and colors. Allows interchange between non-synchronous video sources. Fade in desired color and speed from primary to secondary source. Features: wipes in 15 basic patterns with variable inversion, speed, color, edge and shape; pause function from main control board; Hi-Fi stereo sound.

V-0303 ..... $1290
Special effects generator system. Add titles, graphics, and special effects to video productions; mixes sounds from other sources w/video soundtrack; electronically turns graphics into color. Features: fader; audio and video cut in/out; SEG video camera; special zoom lens to change size of graphics; reverses color graphics; negative/title/pattern selector switch w/LED; microphone input; VTR input; color camera input; pause; remote control.

HAMA

VideoScript 55 ..... $1495
Character generator. Compatible with all S-VHS, S-VHS, S-VHS-C and Hi-8 camcorders plus VCR's; stores up to 72 lines/pages of text; eight different colors; two typefonts; four character sizes; scrolls color wipes either vertically or horizontally; window function; superimposed stopwatch.

PANASONIC

PV-CC50 ..... NA
Adjusts/corrects white balance, color intensity, tint and sharpness; video enhancement control; R/B balance control; color gain control; tint control; split screen; color bar generator; character generator; 8 pages of titles; VHS, video and audio (L/R) terminals.

PV-G40 ..... NA
Character generator; 160 positions of graphics (8 rows, 20 columns); 4-position, computer-style cursor key; choice of 4 character sizes: normal, 1/2, 1 1/2 and 2X normal size; 8 pages of titles; scroll feature; one year memory back-up; video insertion; up/down scrolling.

PANASONIC INDUSTRIAL

WJ-450 ..... $2070
Character generator. Four video input sources for single monitor display; freeze frame; remote control capability; built-in backup memory for title display; video signals synchronized vertically.

WJ-4600C $2650
Special Effects Generator. Lightweight; 6 wipes, patterns, fades; vertical internal switching of 6 program inputs; 120v AC or 12V power supply.

RECOTON

V615M $229.95
Stereo color processor/enhancer/distribution amp. Stereo ready; ultra low noise detailer enhancement circuitry; wide range tint control; add/reduce to washed-out/over-saturated color; video gain w/meter to adjust brightness/contrast ratio of source; fader; ON/Bypass control to compare enhanced/original signal; stereo A/V distribution amplifiers for reduced signal loss; makes 4 copies simultaneously from 1 source; built-in RF converter; inputs: 1 video, 2 audio; outputs: 4 video, 8 audio.

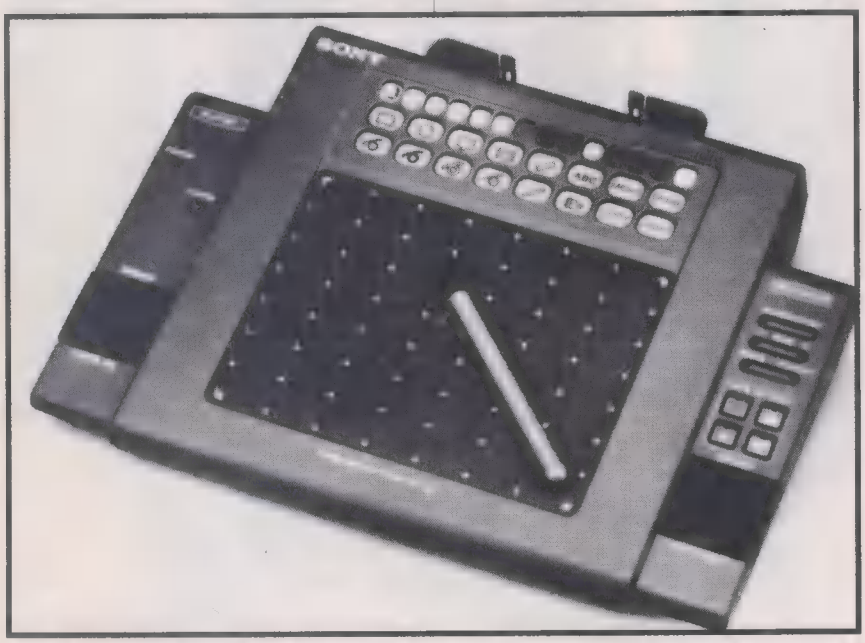
SANSUI

VX-99 ..... $600
Video signal processor. Features: wipe function; cross fading and superimposition effects (when used with outboard genlock or time base corrector); mixes and cross fades two audio sources; 8 color backgrounds: red, green, blue, white, black, magenta, cyan; attaches to PC, digitizes any picture, allows variable 8-shade brightness; 2 viewing monitors; character generator input; soft/hard edge wipe.

AV-99 ..... $750
Signal processor. Stereo; 2 video inputs; 3 audio inputs; 2 video outputs; 2 audio outputs; color wipes w/23 patterns; background color generator; enhancer; stabilizer; audio mixer; camera jack. Dimensions: 4 x 17 x 11. Weight: 9 lbs.

SCRIPTOVISION

Micro Script IV $895
Color video character generator. Integrated genlock circuit; universally compatible; built-in fader;; 3 built-in fonts; memory: 32 screens or 8,000 characters max.; 7 colors; color control; fader; full cursor control; integrated RS-232 serial port for accepting computer generated graphics.



Sony's XV-T33 video sketch titler features three type fonts and a touch-screen drawing pad.

SIGNAL PROCESSORS

SHOWLINE

Spectrum 750 ..... $1895
S-VHS/Composite Digital Video Production System. Contains an infinite window Time Base Corrector (TBC) and Frame Synchronizer; adjustable stroboscopic freeze frame; mixing effects; proc amp controls; digital comb filter; digital automatic gain control; digital internal sync generator.

Spectrum 1000 ..... $2695
S-VHS/Composite Digital A/B Roll Frame Synchronizer. Infinite window TBCs; dual-channel freeze; independent-channel video production controls; dual channel adjustable stroboscopic freeze frame; mixing effects; separate channel proc amp controls; digital comb filter; digital automatic gain control; digital internal sync generator; time base corrects and synchronizes video from any source; S-VHS & composite inputs/outputs.

SONY

XV-C700 ..... $700
Color corrector. Controls: power, input select, phase correct on/off and level, gamma, hue, color reverse. Features: choice of 8 background colors; color corrector w/joystick; 4 wipes; audio and/or video fade; level controls and indicators; 2 stereo audio ins; mic mono input; 2 video/stereo audio outputs; video/stereo audio inverse output.

XV-C900 ..... $995
Video Color Corrector; 17 wipe pattern; variable speed auto/manual modes; 8-color fade; chroma noise reduction; neg/pos reverse for film to video transfer; art effects; 2 line +inputs/outputs; S-video terminal; built-in color bar generator; mic input.

SB-V66S $129.95
Audio Video Selector. Four video inputs; two video outputs; bi-directional dubbing and copying; S-video jack; gold-plated jacks.

XV-T33 ..... $400
Video sketch titler. Three type fonts and an electronic "draw your own" style sketch pad; eLEctronic "touch-screen" drawing pad; 13 colors for titles, graphics or backgrounds, or a rainbow color; "talk balloon" graphic effect; "point-and-place" control; 2 pages of memory; S-Video.

VANGUARD

VA-202 ..... NA
Audio/Video Enhancer; rotary audio, video gain control; stereo audio/video inputs and outputs; 9V DC adapter; RCA patch cord included.

VIDEONICS

Video Equalizer $299
Incorporates a digital video enhancer, digital video processor, split screen function, 3-channel audio mixer; digital paintbrush; video noise reducer; video processor; built-in 3-channel audio mixer; microphone input; moveable split-screen function.

Processor Plus $229
Video processor. Independent control of all three primary colors; independent control of contract, brightness and tint; moveable split-screen control for side-by-side viewing; two-channel audio mixing.

VIDICRAFT

Detailer IV $419.95
Audio/video enhancer. Features: individual horizontal/vertical sharpness controls; black noise reduction system; VNX enhancement noise reduction system; DNR circuitry noise reduction; 'ON/Bypass' switch to compare enhanced to original signal; luminance adjustment.

SEG-200 ..... $529.95
Special effects generator. Features: variety of patterns, shapes, colors, wipes, cuts, fades; automatic transition for fades/wipes variable from .5 to 5 seconds; inputs for synchronous or non-synchronous video sources.

Processor Plus $229
Digital video processor. Independent adjustment of red, green, blue; adjustment of contrast and brightness; video noise reduction; moveable split screen.

AV Processor $459.95
Tri-color LED metering system. Luminance control; fader; color control adjust saturated/washed-out tapes; hue control to correct color during playback/taping; VNX noise enhancement system; DNR circuitry noise reduction system; 'ON/Bypass' switch to compare enhanced to original signal; 4 video/8 audio inputs; 4 stereo outputs.

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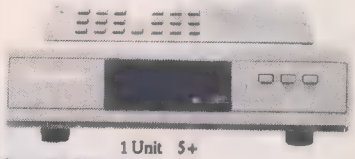

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BUYER'S GUIDE VIDEO BEST

ADA

IMC-85 ..... $2195
Integrated Media Controller. Matrix video switching system w/8 A/V inputs; 8 A/V outputs; 3 RF inputs; 5 RF outputs; simultaneous operation of 8 sources to 8 video outputs.

a/d/s

Architectural Electronic Series ..... NA
Multi-room audio system; consists of PH6 600 total watts amp, SC6 multi-zone preamp, CX2 2-way electronic crossover network, and CP6 universal wall panel controller; Controller operates and selects 8 sources and controls up to 96 zones; shows all zone status; intuitive menu-driven operation.

AUDIO ACCESS

MRX ..... NA
Multi-room receiver; 5 audio inputs; 6 independent source/volume zones; 6 preamp outputs for integrating additional amps; 6 40-watts-per-channel amps; 6 AM/FM presets; independent volume, bass, treble, balance controls for each zone; system settings stored in non-volatile memory; infrared receiver built into keypad.

BOSE

Lifestyle Music System $2400
Music Center contains tuner, CD player and microprocessor; can create 2 separate listening zones controlled by Bose RF remote which transmits through walls; Powered Acoustimass Speaker System w/3 built-in amps; active equalization.

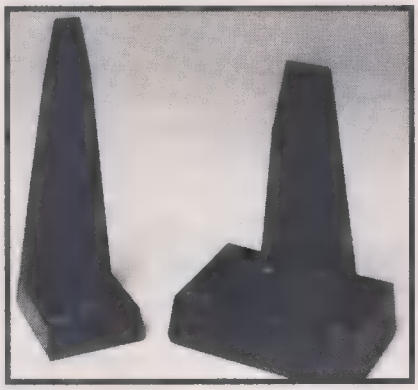
NILES AUDIO

Component Commander ..... NA
Operated by TL-1 Infrared Translator that learns all infrared commands; system permits separate users in different zones to operate equipment via a wall-mounter or hand-held remote; 20-button wall-mounted keypad; 64-button hand-held remote; accommodates 2-6 sources (in multiples of 2) and up to 6 rooms; may be expanded to 60 rooms.

Media Master $7000-8000
Control System. Comes to the installer custom programmed to the client's needs; on-screen controls; one-button control; can run any infrared, non-infrared or RS-232 controlled equipment including audio, video and lighting; automatically adjusts to daylight savings time.

PHILIPS

EM2200 ..... NA
Infrared remote control receiver. Receives and translates all RC-5 remote control signals; allows remote control operation around corners or from separate rooms; decodes command signals from the remote control transmitter, gives visual indication, and feeds decoded commands directly to the component or system; 10 foot signal cable can be extended for 60 feet; AC operation.



Remex BI-KLON

PIONEER

MR-100/MR-101 ..... NA
Multi-room remote control adaptors; home system can be operated from 2 locations: remote in main room and adaptor in other; kit consists of infrared beam sensor, 65-foot connection cable, and AC adaptor.

EM2200 ..... NA
Infrared Remote Control Receiver. Receives and translates all RC-5 remote control signals; allows for remote control operation from around corners or from separate rooms; controls any single component or system fitted with RC-5 jacks; 10 foot signal cable can be extended for 60 feet.

RECOTON

IR 100 ..... $69.99
Remote control extender system. Converts/restores infrared signal to/from radio frequencies (RF); works with any currently available remote; includes AC adaptor.

V905 ..... NA
Wireless A/V sender system. Utilizes the 900MHz frequency range; wireless infrared remote control extender; high gain Yagi style antenna.

REMEX

CY-KLON/KLON-BC $69, $89
Multi-room wireless remote control converters; consists of a converter unit which changes IR remote signals to RF and a receiver unit located near entertainment system; operates on batteries or AC adaptor.

REVOX

B210 ..... NA
Terminal Infrared controller designed to operate Revox multi-room music system; learns other IR codes; displays main system status via bi-directional IR when used w/ B207 Transceiver and B209 COntroller in ancillary rooms; scrolling keys labeled w/ model number or description of non-Revox components; 8-bit CPU w/34kB RAM, 64kB ROM.

TERK

Leapfrog System ..... NA
Master Controller used in conjunction w/ Terk Ampstands; IR4/IR5 wireless infrared re-transmitter uses all remote functions w/existing hard wired extension speakers; wireless amp; Ampstand available in 60w or 120w.

VDO-PAK

Hawkeye $550
Wireless A/V transmitter. Sends color or b/w signal from camera or VCR to one or more TVs/VCRs. Features: 12 V DC operation; rechargeable battery; 200-ft. range; package includes Ni-Pak Jr. battery pack, camera cable; shoe-mount antenna and carrying case. Weight: 4.5 lbs.

VIDICRAFT

Vidi-View ..... NA
Wireless audio/video transmitter. Transmits A/V signals from VCRs, cable boxes, satellite receivers or camcorders; 120 feet radius; RF loopthrough.

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BUYER'S GUIDE VIDEO BEST

CANON

XAPSHOT RC-250 ..... NA
High-Band Still Video Camera. Captures still images with a CCD sensor on a 2-inch video floppy disk; auto white balance correction; auto exposure; built-in flash; rapid fire shooting: up to 3 per second; exposure compensation; macro capability; optional teleconverter.

STILL VIDEO KIT ..... NA
Still Video Computer Imaging Kit. Includes Xap Shot Still Video Camera and "ComputerEyes" video digitizer; allows video signals to be input directly into PCs; available in 5 versions: Macintosh Color, Macintosh Black and White, PC Color, PC Black and White, Color for Apple IIGS.

MAC STILL VIDEO KIT $4899
Still Video Imaging Kit. Includes RC470 Hi-Band Still Video Camera, AKC4 Accessory Kit, FV540 Video Floppy Disk Drive, SV Scan Software Set for Mac II and SE/30; allows input, adjustment, and storage of color and black and white video images on a Macintosh computer.

FUJI

Fujix ES-30TW $700
Records still images on 2-inch video floppy disk; 1/2-inch 400,000 pixel CCD image sensor; equipped with 2x tele/wide lens; 7mm f/3.4 focal length in wide setting; 14mm f/4 in tele; infrared autofocus w/memory; auto exposure; two built-in flash settings.

HITACHI

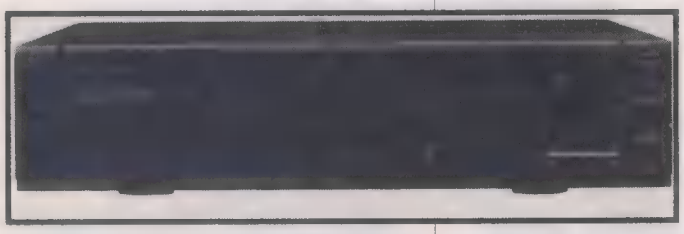
VY-15A $999.95
Color Video Printer. Prints 3 1/2" x 5" prints from TV, VCR, camcorder or S-video source; print kit includes 30 sheets of thermal paper and color cartridge; automatic white balance; 8-color superimposed titling.

MITSUBISHI

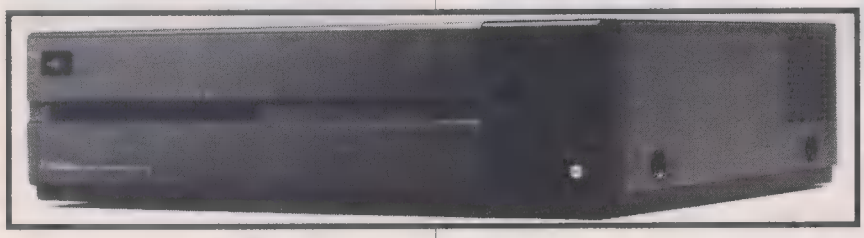
CP-10U $1599
Color Video Printer. Prints 4" x 3" images from any home video source; reproduces images on 4 types of print paper: standard photo paper, postcard-backed paper, adhesive-backed paper, clear transparency sheets; Strobo mode for split image prints.

OLYMPUS

VC-102 ..... NA
Hi-band Still Video Camera. Includes VA-202 processor, VR-300 recorder; 3x zoom lens; variable-range macro mode; high-speed continuous shooting; built-in auto flash; front-loading 2-inch disk drive; digital effects: neg/pos, solarization, mosaic; multi-screen display; screen-to-disk dubbing.



◄ Panasonic's PV-VP1 has a built-in SVHS terminal. Mitsubishi's CP-10U color video printer. ▼



PANASONIC

PV-VP1 ..... $1300
Color Video Printer. Built-in SVHS terminal; 256-gradation processing; 8-bit digital memory allows printing; multiple picture printing: 4, 9, 16 or 25 frames; zoom function; optional character generator; strobe function; picture-in-picture printing.

SONY

CVP-G500 ..... $1500
Color Video Printer. Prints from camcorders, VCRs, TVs, laserdisc players or still video cameras; special effects: 4 pictures in one, 25 multi-frames, mirror image; titling when used with camcorder with digital superimposition; switchablle rear and front video and S-video inputs.

MVC-A10 ..... $849
Mavica still video camera w/sound recording capability; records on 2-inch video floppy disk; 2/3-inch MOS image sensor; Hi-Band recording system; 3-position audio recording mode selector; glass 2-lens system; built-in macro lens; strobe function; auto iris and shutter speed; LCD display window; hand/belt grip; comes w/ Playback Controller.

MVC-C1 ..... $599.95
Mavica magnetic still image video camera. 15mm, f/2.8 fixed-focus lens; optional lens adaptor; auto iris and shutter speed; records up to 50 images on 2-inch video floppy disks; 400 lines hor. res.; continuous high speed still image recording; 10-second auto timer button; powered by 6v NiCad battery.

YASHICA

Samurai V-70 ..... NA
Hi-band SLR still video camera; includes playback adaptor; 2-inch floppy disks store 50 shots each; 1/2" CCD image sensor; 9-27mm 3x zoom; built-in macro mode; TTL viewfinder; high-speed continuous mode; auto white balance.

CD INTERACTIVE

COMMODORE CDTV

Commodore Dynamic Total Vision (CDTV) multimedia player; 1 Mb RAM; utilizes proprietary Commodore graphics, audio processors; accessed by 10-key infrared remote; infrared/peripheral ports; optional joystick, keyboard, mouse; fully programmable in audio mode; compatible w/any monitor; accepts NTSC or PAL RCA connectors; serial port for modem; parallel port for printer; standard enables downloading to Hi-8, SVHS.

CDT-2517 ..... NA
Mind Run CDTV disc. Consists of a set of exercises to test intellectual aptitudes; sharpens memory, listening abilities, logic and understanding of machines.

CDT-3003 ..... NA
Many Roads To Murder CDTV disc. Interactive game that allows user to choose many possible plot directions; disc contains hundreds of images and an audio track.

CDT-7001 ..... NA
Dr. Wellman CDTV disc. Comprehensive health system that covers all areas of health care as related to an average family; displayed with graphics, animation, text, narration and sound effects; contains password sections dealing with health.

CON-TEXT SYSTEMS

THE FAMILY CIRCUS VIDEO WORKSHOP $79.95
CDTV Software. Allows consumers to use characters from the "Family Circus" comic strip to customize their home videos; features hundreds of full-color comics which can be recorded; choice of typefaces and background graphics for use with or without Family Circus art.

MAGNAVOX

CDD461RS $499
CD-I player. Combination CD-ROM drive and CD audio player; front panel audio controls; includes PC XT/AT interface card, Microsoft extensions, installation program, and several CD-ROM titles.

CDD50BK1 ..... $399
Compact CD-I player. External drive with a top loading design; CD audio playback capability; no caddy or external power required; package includes a PC XT/AT interface card, Microsoft CD-ROM Extensions, and an installation program.

CDI910 ..... $1400
CD-I player. Plays CD-ROM discs and audio compact discs; M68070 microprocessor; main memory of 1 MB; menu-driven operation; color capabilities of more than 16 million colors.

Caesars World of Gambling ..... NA
CD-I disc. Gives players a chance to learn and understand how to play each game and how to increase their skill when playing at a real casino; includes blackjack tables, slot machines, craps tables and a roulette wheel; full-color graphics; casino sounds; dealer comments.

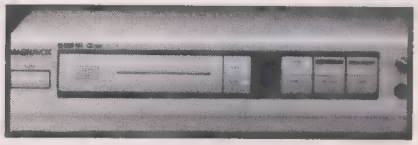
Time-Life Photography ..... NA
CD-I disc. Allows viewers to take customized pictures and learn various photographic techniques; contains the works of three leading photographers and 25 interactive workshops.

Treasures of the Smithsonian ..... NA
CD-I disc. Allows viewers to tour the 12 rooms of the Smithsonian Museum; lets user take a close-up, self-directed tour that captures some 150 exhibits; users can select additional background information.

MULTIMEDIA

AUDIO ACCESS

MRX ..... NA
Muti-Zone, Multi-Source Receiver. Stereo AM/FM tuner section; six-zone receiver; equipped with 40 watt per channel amplifiers; six separate zone controllers; can provide six zones with independent control of source and volume level without affecting any other zone.


Magnavox's CDD461RS

NEWTEK

Video Toaster $1595
All-in-one production switcher, digital video effects unit, character generator, still store; self-contained broadcast video computer on a card that fits in video slot of Amiga 2000 personal computer; still store: dual outputs independently routed to switcher, stores 1,2,4, or 8 fields; switcher: 7 inputs.

SONY

CVD-1000 ..... NA
Vdeck Hi-8 computer video drive. Integrates full-motion video and computers; 8mm VCR; Hi-8 format offers 400 lines of video resolution; video, audio, and color fade; index mark; reads and writes RC time code; offers A/V switching; audio overlay capabilities; implements Video System Control Architechture (VISCA); search capability; data code feature; "after record" capability allows for time code to be placed on any previously recorded 8mm tape.

TOTAL MULTIMEDIA

SOFTVIDEO ..... NA
Decompression software. Allows PCs with sound boards to function as full-motion playback terminals without adding hardware; real-time video teleconferencing over an EHTERNET LAN, telephone line, or ISDN line; runs with any program configuration using a standard AT 286-class VGA computer with DOS operating system.

TMM PROCESS ..... NA
Electronic publishing software. For real-time video capture, compression, decompression, and playback; includes "Softvideo" software; puts real-time images and sound together on floppies; teleconferencing; data manipulation (DOS/UNIX platform).

BUYER'S GUIDE VIDEO BEST

ALTEC LANSING

AHT-2100 ..... $800/pr.
LucasFilm THX loudspeakers. Can be mounted either in or on the wall of a home entertainment environment; 4 3 1/2 in. mid-range; 2 3/4 in. polyimide ferrofluid cooled dome tweeters; 2 4 in. woofers.

BANG & OLUFSEN

550 ..... $4700
Video system. Includes a 26" RCA black matrix picture tube; Beovision MX5500 TV monitor; Beocord VX5000 Super-VHS VCR; motorized stand and interactive remote control; picture-in-picture; multi-picture function that can display 12 different channels simultaneously; "strobe"; MTS; multiport cable input.

FISHER

AV-9015U $1899.95
A/V system. 25" TV/monitor with 181 channel compatible tuner, MTS/dbx stereo; 100 watt receiver with built-in 5 band equalizer, AM/FM stereo digital tuner, 5-disc carousel CD changer, 3-way bass reflex tower speaker system; 48-function unified remote; 42-inch high simulated light oak finish cabinet

AV-9025U $2199.95
A/V system. Combination carousel 5-disc CD changer/turntable; 26-inch TV; stereo amplifier with 120 watts/channel; AM/FM stereo digital tuner with 24 station presets; 49-function remote control.

AV-9055U $2899.95
A/V system. Dolby Pro-Logic Surround SOund processor/amplifier with 20 watts x 3 channels; 27-inch MTS stereo TV/monitor; amplifier with 130 watts per channel and a rotary 5-band equalizer; AM/FM stereo digital tuner; automatic 5-disc CD changer; programmable universal LCD remote control.

FOSGATE-AUDIONICS

Home THX Speaker Systyem ..... NA
System consists of 4 models which can be interchanged; main left, right, and center front speakers usesame componenets; tower version available with extended bass response one octave beow THX requirement; center channel speaker with bass one-half octave below the THX requirement. Projected retail system ranges from approximately $6000 to $8000.

KENWOOD

Spectrum 9080AV $3350
27" monitor/receiver (KMT-3327) w/500 lines horizontal resolution, on-screen display, 128 channels, S-VHS jack, sleep timer, MTS stereo, simulated stereo; 150 W/channel power amplifier (KM-208), 7-band graphic equalizer w/5 preset memory positions, bidirectional tape dubbing, 7 inputs, CD direct switching; control amplifier (KC-208); quartz synthesized tuner/timer (KT-88) w/ 20 station random preset memory, 10-key direct access tuning, 1-day/2-event programmable audio timer, 60-minute sleep timer, scan; dual auto-reverse cassette deck (KX-78CW) w/Dolby B and C noise reduction, high speed dubbing, 16 program direct search system; multiple compact disc changer (DP-M98) w/3-beam laser pickup, 10-key direct access ability; surround sound processor (SS-78) w/Dolby surround, Hall, Theater sound, digital delay, 10 W/channel amp drives rear speakers; 3-way, 3-speaker system (JL-1088) w/12-in. laminated woofer, polypropylene midrange, 180 W maximum input power, magnetically shielded; rear surround speaker system (LSK-01B), 20 watts maximum power outpu.

MAGNAVOX

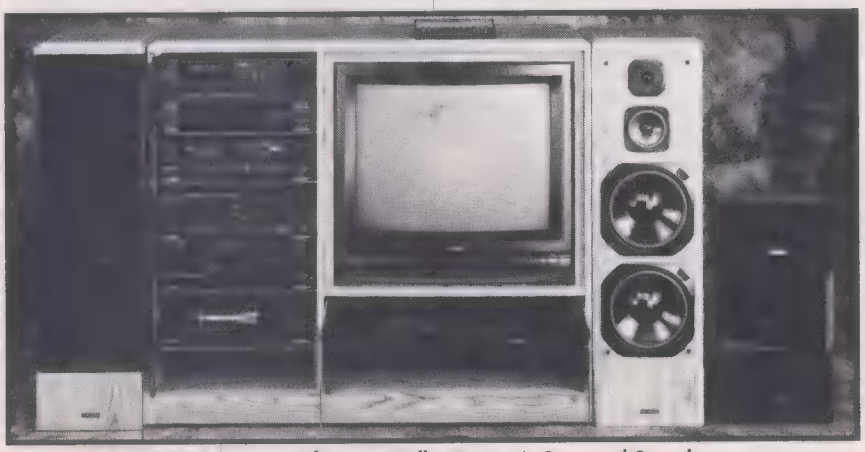
MX8094 ..... NA
A/V Rack system. 100 watts RMS per channel; 5-band EQ; semi-automatic turntable with magnetic cartridge; dual decks with high-speed dubbing; deluxe video rack for 25"-27" TVs plus VCR; 10" 3-way tower speakers with magnetic shielding and servicable backs; dolby B noise reduction system; electronic source selection; matrix surround sound; automatic continuous play.

MITSUBISHI

Home Theater Systems ..... NA
Custom-installed 120" projection television with anti-reflective in-wall screen assembly; M-RAV1 integrated remote control system; M-AV1, M-AV2, or M-AV3 A/V receiver w/remote; M-C5100, M-C4100 CD player; M-T5100 cassette deck; M-S5100 speaker system; M-W5100 audio component cabinet.

PHILIPS

WallVision ..... NA
Large screen projection television systems and accessories installed directly into a wall; available with 46-, 52-, and 61-inch screen sizes; kit includes a screen frame, slip-on contrast color enhancement filter; detachable speaker grille, air dam; optional wall-mounted shelving units; includes 50w



Fisher's AVS-9055U A/V system features Dolby Pro Logic Surround Sound.

Dolby Pro Logic Surround system; various mounting applications include full-flush, corner setting or simple wall enclosure.

PIONEER

PRO-990 ..... NA
40-inch Projection Monitor/Receiver (SD-P402) w/multiple A/V inputs; Digital Surround Amplifier (VSA-910) w/3 surround modes; LD/CD/CDV player w/20 chapter programming; AM/FM Digital Synthesized Tuner (F-551) w/24 random station presets; Double Auto-Reverse Cassette Deck (CT-W900R) w/Twin Dolby HX Pro; Front-Loading Programmable Linear-Tracking Turntable; 3-way Speaker System (CS-V910) 150w max. input; 2-Way Surround Sound Speaker System (CS-VX110); optional Super VHS VCR (VH-930SD) w/21-day/8-event programming.

RUNCO

Cinema Sound $7900
Home Theatre Sound System. Consists of a Dolby Pro Logic surround processor/decoder, 2-channel equalizer, 2 100w/ch amps, a 400w subwoofer amp, and a center channel dialogue amp; front, surround speakers w/8-inch woofers and 1-inch voice coil dome; 15-inch subwoofer.

SHURE HTS

Theater Reference System $3500
Consists of HTS 5300 decoder w/Acra-Vector steering logic, HTS50SPA 100w/ch power amp, HTS50CF center front speaker, HTS50SW 200w subwoofer, HTS50 LRS front, surround speakers, HTS60RX remote extender, HTSA50R rack mount of ramp, HTS A5300R rack mount for decoder.

SONY

KV-27AVR A/V system $2099
27" monitor/receiver w/MTS, color, FM simulcast switch, 3 sets A/V input jacks, front-panel inputs, A/V outputs, 181 channels, comb filter, hor. resolution: 450 lines; built-in stereo amplifier, 30 W/channel output; 2-way Hi-Fi APM speaker systems; Matrix Surround Sound; CD player w/16 selection Random Music Sensor, shuffle play feature, 2 built-in error correction systems; FM tuner w/ 10 station presets, 3 FM Simulcast presets.

TECHNICS/LUCASFILM

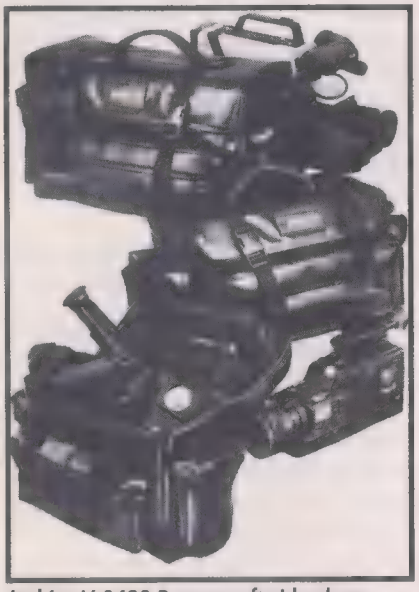
Home THX Sound System ..... NA
Cooperative venture between filmmaker George Lucas and Technics accentuated by clear, intelligible dialogue and excellent dynamic range. 3 front channels used primarily for dialogue, music and effects. System includes: an SH-TX100 controller with Dolby Pro Logic Surround, SE-TX100 100w power amp, SB-TF100 front channel magnetically-shielded speaker system, SB-TS100 surround speakers, and an SB-TW100 twin-drive Subwoofer.

YAMAHA

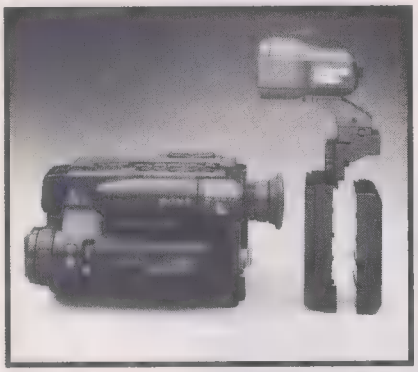
AV-4 ..... $2999
26" monitor/receiver (YM-965S) w/142 channels, MTS, black matrix screen, 560 lines of horizontal resolution, S-VHS compatible; amplifier (AV-35) with wireless interactive remote; tuner (T-33) w/16-station random access presets, auto search; CD player (CD-29) w/3-beam laser pickup, tape edit program when recording CD onto cassette, 24-track programmable random access; double cassette deck (K-31) features Dolby B and C noise reduction, one-touch high-speed dubbing, relay play; semiautomatic turntable (P-31); "Memory Max" (MRX-10) wireless programmable remote two 3-way speakers (NS-A400); 12" woofer; 5" driver, 1" tweeter; two speakers (NS-A70) provide rear surround.

AV-5 ..... $2499
26" color monitor/receiver (YM-965S), 142 channels, MTS decoder, 560 lines horizontal resolution, S-VHS compatible; four channel surround sound A/V amplifier (AV-33), 100 W/channel for the rear, Dolby surround, Natural surround, 7-band EQ, six audio inputs, two video inputs; (T-33) tuner w/16-station random address presets; auto search; CD player (CD-29), 3-beam laser pickup, tape edit program, 24-track programmable random access; double cassette deck (K-31), Dolby B and C noise reduction, one-touch high speed dubbing, relay play; P-31 semiautomatic belt-drive turntable; 1 pair 3-way speakers (NS-390), 12-inch polypropylene cone; 1 pair NS-A70 speakers; wireless integrated remote; YSR-390 cabinet finished in oak vinyl w/folding doors.

PhilipsWallVision home theater systems offer a variety of installation options.



Ambico V-0420 Ranger soft video bags



Geneva PF930 Camlite cordless video light

Ambico V-0515 Chest Pod

CASES AND BAGS

AMBICO V-0420

Ranger soft video bag. Designed for full-size VHS camcorders; three outer pockets; two adjustable dividers; zippered mesh pocket inside; weather-resistant coating; shock-absorbant padding; non-skid feet; snap-lock tops; carry handle/adjustable strap combination.

COASTAR VC-160

Video bag. Denier nylon exterior; polyurethane multi-coated rear fabric; for VHS-C and 8mm camcorders; scuff resistant; water resistant; large zipper entry; accessory pocket; velcro adjustable padded dividers; Delrin closures; shock-absorbing padding; hand strap; leather grip and detachable, adjustable shoulder strap. Dim: 12 x 8 x 8 1/2.

SIMA SPORTS POUCH

Inflatable pouch in two sizes protects video gear from dirt and water. Heavy gauge, high visibility yellow vinyl; waterproof vinyl seal at mouth reinforced with protective tabs on ends; seal is covered with a fold-down collar and Velcro closure; detachable, adjustable shoulder strap. Sports Pouch measures 14 x 12 and keeps up to 10 lbs. afloat in water when inflated. Super Sports Pouch measures 17 x 17 and holds 20 pounds afloat when inflated.

BRACES & BRACKETS

AMBICO V-0515

Chest Pod; lightweight; quick release mount; adjusts to different height levels.

CINEMA PRODUCTS STEADICAM JR

Brace. Eliminates shaking in the picture; brace includes hand grip, monitor, guide, stage, and a Steadicam "Obie" light; for use with lightweight 8mm, VHS-C and S-VHS-C; includes instruction video.

TRISTAR 350CPL

Universal Vehicle Mount; clips on edge of window glass and sticks to vehicle body; camera angle adjustment via multidirectional bracket; LevelPole feature allows camera to be moved without disturbing level adjustment.

TRIPODS

AMBICO V-9500

The Ultimate Tripod. Fluid head; all-metal gear-driven center column; aluminum tubular legs with circumference of almost 4" Opens to 72".

AMBICO VTR-90RA

Professional"High-boy" fluid action tripod. Built-in camera quick release system; deep anodized black satin aluminum; 3-section, 32mm aluminum tubular legs with tri-brace; large adjustable angle handle; retractable, spiked leg tips; extends from 29 to 77"; 360-degree horizontal scale.

GE 1TPD400

Universal tripod; combination fluid/spring action head; tilt tension control; clik-stop movement; pan tensioning; separate pan lock; bubble level; extends to 5 feet; adjustable angle panhandle.

GOLDCOAST GT-700

Fluid head tripod. Oil fluid panhead assembly; independent controls; adjustable oil tension; built-in bubble level; geared elevator column; quick release; side mount leg-lock; telescopic handle; flip-over head assembly; locking tri-brace. Opens to 71", closes to 31".

MOHAWK MTR-1200

Tripod; quick-release platform; swivel cup at ground level for easy handling; wrist carry strap; 4-section, 29mm Super-Hex leg design with side-mounted flip-lever locks; extends to 58"; closes to 22".

RCA AC040

Universal tripod; for use w/all full-size VHS camcorders; combination fluid/spring action head; separate tilt back lever; pan tensioning; separate pan lock; click stop movement; extends to 5 feet; leg braces w/locks; retractable foot spikes for soft ground.

SIMA ST-20K
ProLine Video Tripod. For use w/mini and palm-sized camcorders; 2-way fluid panhead; 3-section closed channel legs; gear controlled elevators; column locks; extends to 52 1/2 inches; folds to 21 inches. Weight: 2.4 lbs.

VIDEO LIGHTS

ARKON CL510
Integrated quartz video light. Battery integrated into a grip bracket that attaches to the camcorder's tripod socket; 20 min. battery charge, power cord with cigarette plug; 20 ounces.

AZTEC AZ10
Video light. Does not require separate battery light; powered by camcorder battery attachment; 10w illumination; 40 minute running time with continuous use; available for Sony, Nikon, Ricoh, Panasonic, Kyocera, and other compact 8mm and VHS-C camcorders; unique tilt feature for use with binocular-style camcorders.

BOGEN M-100
Mini Video light. 100W; uses 12V DC source w/cigarette style plug adapter; handle; faceted dichroic finish; w/barn doors; shoe adapter; 1.4 lbs.

COOL LUX "MICRO-LUX"
Video light. 12V battery powers 9000 candle beam light; For camcorders; features bracket to hold light fixed forward; runs 1-3/4 hours; consumes 35 watts; built in diffusion lens; car power adapter; AC adapter available separately; 3300 degrees K. 3 in. long. Weight: 3 ozs. Available in black, silver, gold, red or blue.

DUAL VOLTAGE HM-M18
Video light. Uses Halogen lamp; AC/DC; mount installs on cameras and tripods; 3300 degrees K; lead acid power pack available; compact; Also available in 12V 50W-12V 100W and 110V 150W configurations.

GE 1CVL300
Lightweight video light. 2 lamps provide 3 light levels; 10 and 20 quartz halogen lamps; cordless, rechargeable NiCad battery; mounts on a standard shoe adapter; wide angle diffuser lens.

HAMA MAGNUM 6303
Computer-controlled Light. Output or wide-angle and telephoto positions; electronic sensor effective from 0.5 to 3.0 meters; barndoors for framing; blue color conversion filter.

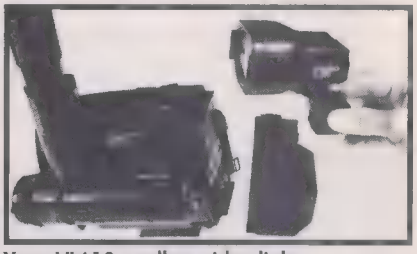
JASCO CAMPAK II
Cordless video light. 6v-20w halogen bulb; rechargeable battery pack; recharging unit; soft storage case.

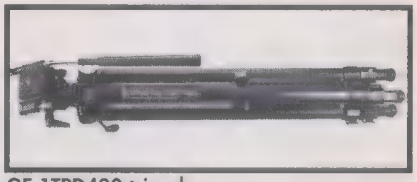
LOWEL T1-94M T-4 KIT
4 tota-lights w/16' cables (minus lamps); 3 umbrellas; 4 gel-frames; 2 sets of assorted gels (10 total); Mylar reflector screen; 4 flags; 1 8"x12" reflector; 4 flexi shafts; 4 stands; 1 mount; 1 clamp; 1 large space clamp; 12 yards of gaffer tape; 1 tota-lampak; molded hard case; 42 lbs.

OLYMPUS WOODBURY VIDEOLITE
250 watt lamp; slip-on shoe for mounting on camera; adaptable for hand-held, tripod or light stand use; two models available for use with standard 110V AC house current (Model 120) or with NiCad battery and charger (Model 12L); fully rotatable barn doors; 3400-degree Kelvin color temperature; 40-degree beam; quartz halogen; dichroic coated Pyrex glass reflector. Weight: 8 oz.

PACKTRONICS LT-3
DC Camcorder Video Light. Portable 50W DC lamp; mounts directly on camera via shoe mount or on light stand; rechargeable lead acid battery; safety glass screen; 6-foot power cord; optional accessories. Weight: 11 oz. Dimensions: 2 in. H x 3.5 in. W x 2 in. D.

Sima's SL-8 Twinlight


Yuzo VL610 cordless video light


GE 1TPD400 tripod

Sima's SL-7 Mini Camlight

BUYER'S GUIDE VIDEO BEST

PHILIPS V80109BK01
Video light. 20w direct current; camcorder shoe mount; operates on 6v, 1000mAH NiCad battery pack; provides 20 mins. of light; 100 lux light intensity; 20w halogen bulb; AC charger included.

RCA VDC200
Lightweight video light. Mounts on cordless standard shoe adapter; 10 and 20 quartz halogen lamps; 10, 20 and 30 watt light settings; cordless rechargeable NiCad battery; provides 54 mins. of light in 10 watt mode, 27 mins. in 20 watt mode, 18 mins. in the 30 watt mode.

SIMA MINI CAMLIGHT
Video light. Pocket sized self-powered video light; 20-watt quartz halogen lamp; includes Sony nicad battery and an AC charger. Weight: 8.4 ounces.

SIMA TWINLIGHT
Video light. 30-watt; self-powered; two settings: 10 watts and 30 watts; frosted lens; includes Sony type battery and AC charger. Weight: 11.5 ounces.

SIMA CAMLIGHT 2
100-watt quartz halogen DC video light. 3300-degree Kelvin color-balanced lamp; mounting bracket attaches to video camera's shoe or can be set on table; 4-amp hour Video CamPower portable rechargeable battery pack, with nylon carrying case, provides 20 minutes of light with CamLight 2; battery charger supplied. Light weighs 7 oz. and is 3 1/2 in. long.

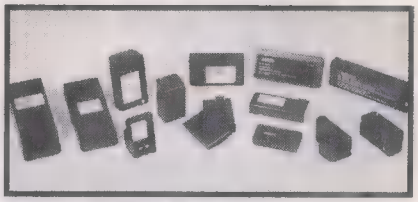
SUNPAK CV-20S
Video light. For use w/most 8mm camcorders; head features a 15 degree tilt down; built-in diffusion filter; 20 watts; halogen light; running time of 25, 35 and 50 minutes.

BATTERIES

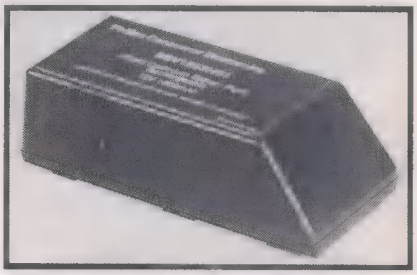
BRAND	MODEL	PRICE	TYPE	COMPATIBLE BRANDS
AMBICO	V-0823	$49.95	VHS	Canon,Chinon,GE,Magnavox,Olympus, Panasonic,Philips,Quasar
	V-0834	$19.95	VHS	Canon,Chinon,GE,Magnavox,Olympus Panasonic
	V-0822	$79.95	VHS	Goldstar,Hitachi,Pentax,RCA, Ricoh, Samsung
	V-0819	$39.95	VHS-C	Panasonic,Quasar
	V-0830	$69.95	VHS	Sharp
	V-025	$39.95	8 mm	Sony, Fisher, Nikon, Ricoh
	V-843	$19.95	VHS	Sharp
	V-0844	$39.95	8mm	Canon
	V-0845	$49.95	VHS-C	Panasonic
	V-0908	$59.95	8mm	Sony, Ricoh, Kyocera
	V-0909	$39.99	—	Sony, Panasonic, JVC, Canon
	V-0911	$39.95	—	Sony, Panasonic, JVC, Canon
	V-0912	$39.95	VHS	Panasonic
	V-0831	$49.95	8mm	Canon
ARKON	TC200-9	$99.99	—	JVC, RCA
DUAL VOLTAGE	DV-1919P	$59.95	VHS	Panasonic, Magnavox, GE, Quasar
	DV-1919E	$29.95	VHS	Panasonic, Magnavox, GE, Quasar
	DV-1990E	$39.95	VHS-C	Panasonic, GE
	DV-1992	$79.95	VHS-C	Panasonic, GE
	DV-2022E	$29.95	VHS	RCA, Hitachi, Sears, Minolta
	DV-2022P	$79.95	VHS	RCA, Hitachi, Sears, Minolta
	DV-2066P	$79.95	8mm	RCA PRO 8mm
	DV-2088P	$79.95	VHS	RCA, Hitachi, Realistic, Sears
	DV-6022P	$59.95	8mm	Canon
	DV-6077P	$59.95	8mm	Canon
	DV-7044P	$79.95	VHS-C	JVC, Panasonic, Magnavox, Zenith
	DV-8022P	$79.95	8mm	Sony, Fisher, Kyocera, Nikon
JASCO	8421	$75.99	VHS	Hitachi,RCA
	8422	$58.99	VHS-C	GE,JVC,Magnavox,Panasonic,Quasar
	8410	NA	—	camcorders,lights
PHILIPS	SBV1550S01	$49.95	8mm	Sony
	SBV1551H01	$54.95	8mm	Sony
	SBV1552H01	$74.95	VHS	Hitachi,RCA
	SBV1553H01	$89.95	VHS	Hitachi,RCA
	SBV1554H01	$89.95	VHS	Sharp
	V80076BK01	$54.95	VHS-C	GE,Magnavox,Panasonic,Quasar, Sylvania
REALISTIC	23-183	NA	VHS	Realistic
	23-184	NA	8mm	Realistic
	23-186	NA	VHS	Realistic

BATTERIES (continued)

BRAND	MODEL	PRICE	TYPE	COMPATIBLE BRANDS
RECOTON	V560	$79.95	—	JVC,Panasonic
	V563	$87.95	—	Panasonic
	V564	$89.95	VHS-C	Hitachi,RCA
	V565	$59.95	8mm	Ricoh,Sony
	V566	$49.95	8mm	Fisher,Ricoh,Santo,Sony,Yashica
	V569	$79.95	VHS	GE,Magnavox,Panasonic, Quasar, Sylvania
SAFT	RC1215	$49.95	—	Magnavox,Olympus,Panasonic,Quasar
	RC122	$69.95	—	Panasonic
	RC6010	NA	8mm	Canon
	RC9615	NA	VHS	Hitachi,RCA
	RC1216	NA	VH	Sharp
	RC6018	NA	8mm	Nikon,Ricoh,Sanyo,Sony
SANYO	NP-55	$44.95	8mm	Sony, Olympus, Zenith, Sunpak, Fisher
SIMA	SPM-1	$39.95	—	Can be used with virtually
	SPM-2	$39.95	—	any type of 8mm or
	SPM-4	$125	—	VHS-C type of
	PowerMax 15	$99.95	—	camcorder battery.
SUNPAK	RB-J6G	$99.95	VHS-C	Chinon,JVC,Panasonic,Quasar,Zenith
	RB-55	$69.95	8mm	Sony, Nikon, Ricoh, Sanyo
	RB-77	$89.95	8mm	Sony, Nikon, Ricoh, Sanyo
	RB-77S	$120	8mm	Sony, Nikon, Ricoh, Sanyo
	RB-PS-1	$69.95	VHS-C	Panasonic
	RB-PS-2	$120	VHS-C	Panasonic
	RB-H22	$94.95	VHS	Hitachi,Pentax,RCA
	RB-H63	$95.95	VHS	Hitachi,Realistic,RCA
	CL-E77K	$99.95	8mm	Canon,Sunpak
	CL-E77Z	$130	8mm	Canon,Sunpak
	RB-P88	$89.95	VHS	Canon,Chinon,Magnavox,Panasonic, Olympus,Quasar,Sylvania
VDO-PAK	RB-13	NA	VHS-C	JVC,Magnavox,Panasonic,Philips, Quasar,Samsung,Sharp,Toshiba,Zenith
	RB-22	NA	8mm	Fisher,Ricoh,Samsung,Sanyo,Sony
	RB-83	NA	VHS	GE,Hitachi,Magnavox,Panasonic,Quasar
	RB-87-1	NA	8mm	Chinon,Nikon,Olympus
	RB-90	NA	8mm	Canon
	RB-200	NA	VHS	Hitachi,RCA
VIVITAR	V-522	$79.95	VHS	Hitachi,RCA
	V-722	$89.95	8mm	Canon
	V-962	$83.95	VHS-C	JVC
	V-520	$79.95	VHS-C	Hitachi,RCA
	V-80	$67.95	8mm	Chinon, Nikon,Olympus
	V-77	$65.95	8mm	Sony
	V-67	$51.95	8mm	Sony



Ambico's full line of camcorder replacement batteries includes battery packs for nearly every major camcorder brand in all formats and power capabilities.



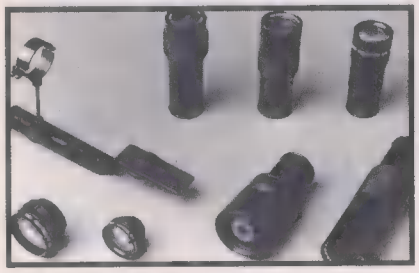
The SBV1550S01 6-volt replacement battery from Philips is a Sony-type NP22 battery pack used for 8mm camcorders that operates anywhere from one to two hours on a ful charge.

The RB-55 and RB-77S camcorder replacement batteries from Sunpak are compatible with a number of different 8mm camcorder models.

Saft's lineup of Again & Again camcorder replacement battery packs are suitable for a variety of camcorder models and formats.

Aztec's AZTR5D dual video lens features a 1.5x telephoto and a .6x wide angle lens.

The VC-05 Pro .5x wide video conversion lens from Tokina.



Arkon's line of video lenses pictured here with their telephoto holder.

Philips' SBC5311A01 conversion lens kit.

VIDEO LENSES

BRAND	MODEL	PRICE	TYPE	MAGNI-FICATION	ADAPTER RINGS
AMBICO	V-0372	$149.95	tele/wide	1.5/.6	No
	V-0375	$49.95	tele	2.5/5.0	Yes
	V-0362	$109.95	tele/wide	1.5/.6	No
ARKON	MVL-206	$99.95	tele	2.0	No
	MVL-207	$229.95	tele	3.0	No
	MVL-208	$299.95	tele	4.0	No
	MVL-209	$349.95	tele	5.5	No
	MVL-216	$99.95	tele	2.0	No
AZDEN	Set 155	$99.95	tele/wide	1.5/0.5	Yes
	D205	$109.95	tele/wide	2/0.5	Yes
	W52NC	$79.95	wide	0.5	Yes
	T203NC	$89.95	tele	2.0	No
AZTEC	AZFLIP	$125.95	tele/wide	1.5/.6	Yes
	AZTR5D	$64.95	tele/wide	1.5/.6	Yes
CANON	EOS	$350	Adapter	—	No
LENMAR	VST30	$229.95	tele	3.0	Yes
	VTAF20	NA	tele	2.0	Yes
PHILIPS	V80102BK01	NA	tele	NA	Yes
	SBC5311A01	$119.95	tele/wide kit	1.5/.65	Yes
PHOTO SYSTEMS	Spectralstar	NA	lenses	assorted	No
RAYNOX	AF1500	NA	tele/wide kit	1.5/.65	No
RCA	WAL02	$119.95	wide	.7	Yes
	LX153	$129.95	tele	1.5	Yes
SIMA	SLS-TR	$89.95	tele/wide	1.5/.5	Yes
	SLS-2	$99.95	tele/wide	1.5/.6	Yes
	SLS-T2	$74.95	tele	2.0	Yes
	SLS-W6	$59.95	wide	.6	Yes
TIFFEN	Twist	$129.95	tele/wide	NA	Yes
TOKINA	VC-651S	$109.80	tele/wide kit	1.5/.65	Yes
	VSC-0714	$119.80	tele/wide kit	1.4/.7	Yes
	VSC-05 PRO	$99.80	wide	.5	Yes
	VSC-18 PRO	$99.80	tele	1.8	Yes
	VTC-05S	$65.80	wide	0.5	Yes
	VC-55	$439.80	tele	5.5	Yes
	VCZ-60	$659.80	tele zoom	2.0-6.0	Yes
VIVITAR	2X	$105.95	tele	2.0	Yes
	3.5X	$217.95	extra tele	3.5	Yes
	.55X	$59.95	wide	.55	Yes
	1.5X	$59.95	tele	1.5	Yes
	MLS-1	$79.95	tele/wide	0.6/1.5	Yes
	0.6X/1.5X	$93.95	tele/wide	0,6 or 1.5	Yes
	0.42X	$89.95	extra wide	.42	Yes
	0.5X	$89.95	wide	.5	Yes

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ACCESSORIES

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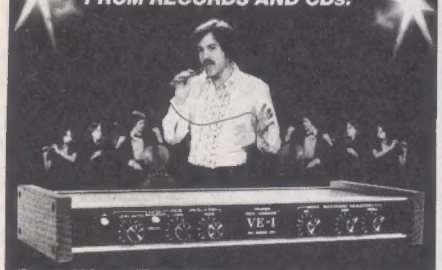

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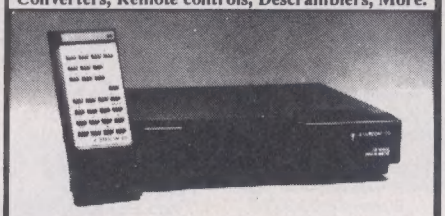

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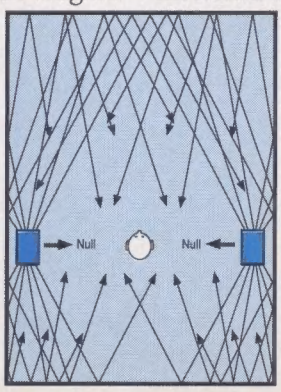

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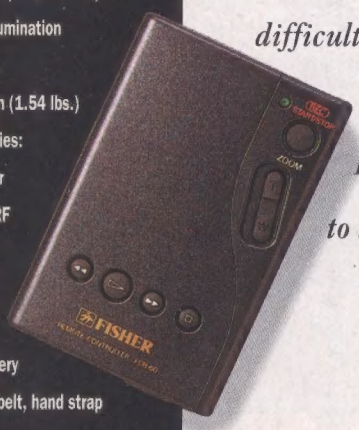

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